LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 130	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 130A	1		SHLD A130 E28	 192				.25 NO .25 NC				
A 130L			J14-NN J26-F1	111 79				.25 NO .25 YES			47	
A 130R			J14-MM J26-D1	111 79				.25 NO .25 YES			47	
A 131	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 131A	1		SHLD A131 E27	 189				.25 NO .25 NO				
A 131L			J13-Q* TB1-2D	91 2				.25 NO .15 NO			49	
A 131R			J13-P* TB1-2B	91 2				.25 NO .15 NO			49	
A 132	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 132A	1		SHLD A132 E27	 189				.25 NO .25 NO				
A 132L			J13-N* J26-D2	91 79				.25 NO .25 YES			47	
A 132R			J13-M* J26-C1	91 79				.25 NO .25 YES			47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 133A	1		SHLD A133 E22	 170				.25 NO .25 NO				
A 133L			TB1-2C J26-C2	2 79				.15 NO .25 YES			49	
A 133R			TB1-2A J26-C2	2 79				.15 NO .25 YES			49 47	
A 134	8											
A 134L			TB1-2C J21-B1	1 84				.15 NO .20 NO			49 46	
A 134R			TB1-2B J21-A1	1 84				.15 NO .20 NO			49 46	
A 135	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 135A	1		SHLD A135 E22	 170				.25 NO .25 NO				
A 135L			J21-C1 J3-H	84 65				.20 NO .25 NO			46	
A 135R			J21-B1 J3-J	84 85				.20 NO .25 NO				
A 136	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	

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MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 136A	1		SHLD A136 E16	 176				.25 NO .25 NO				
A 136M			J26-M2 J22-H5	79 83				.20 NO .20 NO			46 46	
A 137	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 137A	1		SHLD A137 E27	 189				.25 NO .25 NO				
A 137L			J13-Z* J26-F3	91 79				.25 NO .25 YES			47	
A 137R			J13-Y* J26-C3	91 79				.25 NO .25 YES			47	
A 138	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 138A	1		SHLD A138 E27	 189				.25 NO .25 NO				
A 138L			J13-V* J26-D4	91 79				.25 NO .25 YES			47	
A 138R			J13-L* J26-C3	91 79				.25 NO .25 YES			47	
A 139	10				2.25 2.25	2.00 2.00				E,7 A,4	63 57, 56, 63	
A 139B	1		E22 SHLD A139	170				.25 NO .25 NO				

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MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 139L			J26-C4 TB1-3C	79 2				.25 YES .15 NO			49	
A 139R			J26-C4 TB1-3A	79 2				.25 YES .15 NO			47 49	
A 140	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 140A	1		SHLD A140 E27	 189				.25 NO .25 NO				
A 140L			J13-X* TB1-3D	91 2				.25 NO .15 NO			49	
A 140R			J13-W* TB1-3B	91 2				.25 NO .15 NO			49	
A 141	8											
A 141L			TB1-3C J21-B2	1 84				.15 NO .20 NO			49 46	
A 141R			TB1-3A J21-A2	1 84				.15 NO .20 NO			49 46	
A 142	10				3.25 2.25	3.00 2.00				E,7 A,4	63 57, 56, 63	
A 142B	1		E22 SHLD A142	170				.25 NO .25 NO				
A 142L			J3-L J21-C2	85 84				.25 NO .20 NO			46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	1		J5-T*	92			.25	NO			
			J22-L4	83			.20	NO		46	
A 365	1		J5-R*	92			.25	NO			
			J22-M1	83			.20	NO		46	
A 366	1		J5-F	92			.25	NO			
			J22-M3	83			.20	NO		46	
A 367	5				3.25	3.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	
A 367A	1		SHLD A367				.25	NO			
			E26	191			.25	NO			
A 367W			J5-C*	92			.25	NO			
			J22-N4	83			.20	NO		46	
A 368	1		K3-S	86A			.25	YES		44	
			K14-2	164A			.25	YES		45	
A 369	1		J11-W*	114			.25	NO			
			K14-1	164A			.25	YES		45	
A 370	15				3.25	3.00			B,7	63	
					2.25	2.00			A,4	59, 65, 63	
A 370B	1		E22	170			.25	NO			
			SHLD A370				.25	NO			
A 370L			J12-S	113			.25	NO			
			J22-R1	83			.20	NO		46	
A 370R			J12-P	113			.25	NO			
			J22-P1	83			.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 370Y			J12-R	113			.25	NO			
			J22-P2	83			.20	NO		46	
A 371	16				2.25	2.00			A,4	60, 61, 62	
					3.25	3.00			B,7	62	
A 371A	1		SHLD A371				.25	NO			
			E22	170			.25	NO			
A 371L			J22-R1	83			.20	NO			
			K14-4	164A			.25	YES		45	
A 371R			J22-P1	83			.20	NO			
			K14-10	164A			.25	YES		45	
A 371Y			J22-P2	83			.20	NO			
			K14-7	164A			.25	YES		45	
A 372	16				3.25	3.00			B,7	62	
					3.25	3.00			A,4	60, 61, 62	
A 372B	1		E29	193			.25	NO			
			SHLD A372				.25	NO			
A 372L			J2-B	87			.25	NO			
			K14-5	164A			.25	YES		45	
A 372R			J2-A	87			.25	NO			
			K14-11	164A			.25	YES		45	
A 372Y			J2-C	87			.25	NO			
			K14-8	164A			.25	YES		45	
A 373	1		J14-CC	111			.25	NO			
			J21-L3	84			.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTL ONE, FIG	ACCESSORY ITEMS	REMARKS
A 374	1		J13-E*	91			.25	NO			
			J13-I*	91			.25	NO			
A 375	1		J13-I*	91			.25	NO			
			J13-K*	91			.25	NO			
A 376	18										
A 376K			J13-K*	91			.25	NO			
			J21-B5	84			.20	NO		46	
A 376L			J13-H*	91			.25	NO			
			J21-A5	84			.20	NO		46	
A 376R			J13-D*	91			.25	NO			
			J21-B6	84			.20	NO		46	
A 376Y			J13-J*	91			.25	NO			
			J21-A6	84			.20	NO		46	
A 377	9										
A 377L			J12-V*	113			.25	NO			
			J21-D5	84			.20	NO		46	
A 377R			J12-U*	113			.25	NO			
			J21-D6	84			.20	NO		46	
A 376	9										
A 378L			J12-X*	113			.25	NO			
			J21-G6	84			.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 378R			J12-W*	113			.25	NO			
			J21-F6	84			.20	NO		46	
A 379	9										
A 379L			J12-Z*	113			.25	NO			
			J21-H5	84			.20	NO		46	
A 379R			J12-Y*	113			.25	NO			
			J21-H6	84			.20	NO		46	
A 380	18										
A 380K			J4-F*	88			.25	NO			
			J21-G1	84			.20	NO		46	
A 380L			J4-H*	88			.25	NO			
			J21-F1	84			.20	NO		46	
A 380R			J4-J*	88			.25	NO			
			J21-G2	84			.20	NO		46	
A 380Y			J4-G*	88			.25	NO			
			J21-H1	84			.20	NO		46	
A 381	2		J21-G2	84			.20	NO			
			TB1-6A	3			.15	NO		48	
A 382	7				.52	.25			B,10	41, 42, 63	
					2.25	2.00			A,5	53, 52, 63	
A 382B	1		TB1-6A	4			.15	NO		49	
			SHLD A382				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 654	2		TB1-27C J22-R5	17 83				.15 .20	NO NO		48 46	
A 655	2		TB1-27B TB3-16D	18 164				.15 .25	NO NO		48 50	
A 656	2		TB1-27C TB3-16B	18 164				.15 .25	NO NO		48 50	
A 657	2		J22-B5 TB3-16A	83 164				.20 .25	NO NO		46 50	
A 658	2		J22-G5 TB3-16C	83 164				.20 .25	NO NO		46 50	
A 659	2		J17-H TB3-12D	109 152				.25 .15	NO NO		48	
A 660	2		TB3-12A E11	127 194				.15 .25	NO NO		48	
A 661	1		E11 J18-KK	194 96				.25 .25	NO NO			
A 662	1		E11 J19-KK	194 106				.25 .25	NO NO			
A 663	1		E11 J31-MM	194 89				.25 .25	NO NO			
A 664	1		E11 J32-PP	194 90				.25 .25	NO NO			
A 665	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 665A	1		SHLD A665 TB3-12C	151				.25 .15	NO NO		49	
A 665L			J17-E TB3-11B	109 151				.25 .15	NO NO		48	
A 665R			J17-C TB3-10B	109 151				.25 .15	NO NO		48	
A 666	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 666A	1		SHLD A666 TB3-12B	151				.25 .15	NO NO		49	
A 666L			J17-G TB3-11C	109 151				.25 .15	NO NO		48	
A 666R			J17-F TB3-10C	109 151				.25 .15	NO NO		48	
A 667	10				2.25 3.25	2.00 3.00				A,5 B,7	57, 56, 63 63	
A 667A	1		SHLD A667 TB3-12C	128				.25 .15	NO NO		49	
A 667L			TB3-11A J18-J	128 96				.15 .25	NO NO		49	
A 667R			TB3-10A J18-H	128 96				.15 .25	NO NO		49	
A 668	10				2.25 3.25	2.00 3.00				A,5 B,7	57, 56, 63 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 668A	1		SHLD A668 TB3-12A	151				.25 .15	NO NO		49	
A 668L			TB3-11A J19-J	151 106				.15 .25	NO NO		49	
A 668R			TB3-10A J19-H	151 106				.15 .25	NO NO		49	
A 669	10				2.25 3.25	2.00 3.00				A,5 B,7	57, 56, 63 63	
A 669A	1		SHLD A669 TB3-12B	128 128				.25 .15	NO NO		49	
A 669L			TB3-11C J31-N*	128 89				.15 .25	NO NO		49	
A 669R			TB3-10C J31-M*	128 89				.15 .25	NO NO		49	
A 670	10				2.25 3.25	2.00 3.00				A,5 B,7	57, 56, 63 63	
A 670A	1		SHLD A670 TB3-12D	128				.25 .15	NO NO		49	
A 670L			TB3-11D J32-T*	128 90				.15 .25	NO NO		49	
A 670R			TB3-10D J32-S*	126 90				.15 .25	NO NO		49	
A 671	2		TB3-1F TB3-13B	137 126				.25 .15	NO NO		50 48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 672	2		TB3-1H TB3-14B	137 126				.25 .15	NO NO		50 48	
A 673	2		TB3-1L TB3-15B	135 125				.25 .15	NO NO		50 48	
A 674	2		TB3-1N TB3-16B	135 125				.25 .15	NO NO		50 48	
A 675	2		E7 TB3-13A	161 133				.25 .15	NO NO		48	
A 676	2		E8 TB3-13A	160 126				.25 .15	NO NO		48	
A 677	2		E12 TB3-13B	176 133				.25 .15	NO NO		48	
A 678	2		E13 TB3-13C	179 126				.25 .15	NO NO		48	
A 679	2		E14 TB3-13C	178 133				.25 .15	NO NO		48	
A 680	2		E15 TB3-13D	177 133				.25 .15	NO NO		48	
A 681	2		E16 TB3-13D	176 126				.25 .15	NO NO		48	
A 682	2		E17 TB3-14A	171 126				.25 .15	NO NO		48	
A 683	2		E18 TB3-14A	175 133				.25 .15	NO NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 704	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 704B	1		TB2-6C SHLD A704	42				.15 .25	NO NO		49	
A 704E			J7-G1 TB2-7A	95 42				.15 .15	NO NC		40 49	
A 704X			J7-G2 SHLD A704	95								
A 705	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 705B	1		TB2-6D SHLD A705	42				.15 .25	NO NO		49	
A 705E			J7-J1 TB2-7C	95 42				.15 .15	NO NO		40 49	
A 705X			J7-J2 SHLD A705	95								
A 706	1		J27-A9 J27-B9	76 78				.25 .25	YES YES		47 47	
A 707	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 707B	1		E15 SHLD A707	177				.25 .25	NO NO			
A 707L			J2-R J27-N4	67 78				.25 .20	NO NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 707R			J2-X J27-M4	87 78				.25 .20	NO NO		46	
A 708	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 708A	1		SHLD A708 E7	181				.25 .25	NO NO			
A 708L			J2-A* J27-C5	87 76				.25 .25	NO YES		47	
A 708R			J2-Z J27-C6	87 78				.25 .25	NO YES		47	
A 709	1		J5-AA J27-C7	92 78				.25 .25	NO YES		47	
A 710	1		J13-W J27-C8	91 78				.25 .25	NO YES		47	
A 711	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 711A	1		SHLD A711 E7	181				.25 .25	NO NO			
A 711L			J2-L J27-B5	87 78				.25 .25	NO YES		47	
A 711R			J2-M J27-B6	87 78				.25 .25	NO YES		47	
A 712	1		J12-D J27-B8	113 78				.25 .25	NO YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 713	1		J12-E J27-D7	113 78				.25 .25	NO YES		47	
A 714	1		J5-BB J27-F7	92 78				.25 .25	NO YES		47	
A 715	1		J5-A J27-D5	92 78				.25 .25	NO YES		47	
A 716	1		J12-AA J27-F5	113 78				.25 .25	NO YES		47	
A 717	1		J12-BB J27-F4	113 78				.25 .25	NO YES		47	
A 718	1		J12-DD J27-F3	113 78				.25 .25	NC YES		47	
A 719	1		J12-EE J27-F6	113 78				.25 .25	NO YES		47	
A 720	8											
A 720L			J5-HH K1-5	92 88A				.25 .25	NO YES		44	
A 720R			J5-GG K1-1	92 88A				.25 .25	NO YES		44	
A 721	8											
A 721L			K1-5 K6-5	88A 88A				.25 .25	YES YES		44	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 721R			K1-1 K6-1	88A 88A				.25 .25	YES YES		44	
A 722	8											
A 722L			J5-CC K5-5	92 88A				.25 .25	NO YES		44	
A 722R			J5-EE K5-1	92 88A				.25 .25	NO YES		44	
A 723	8											
A 723L			J5-DD K2-5	92 88A				.25 .25	NO YES		44	
A 723R			J5-W* K2-1	92 88A				.25 .25	NO YES		44	
A 724	2		J2-Y K2-7	87 88A				.25 .25	NO YES		44	
A 725	2		K2-7 K5-7	88A 88A				.25 .25	YES YES		44	
A 726	2		K2-4 J27-L1	88A 78				.25 .20	YES NO		44 46	
A 727	2		K5-4 J27-M1	88A 78				.25 .20	YES NO		44 46	
A 728	2		K1-8 J27-G1	88A 78				.25 .20	YES NO		44 46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
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APPLICATION		REVISIONS TDRR 17842			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902198-011	1902195-011	D	REPLACES REVISION C WITH CHANGE PER TDRR 19871	13 MAY 65	DHD
		E	REVISED PER TDRR 21042	16 JUL 65	LK
		F	REVISED PER TDRR 21888	15 SEP 65	JWP

Ⓓ REPLACES REV(C)WITH CHANGE

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
REV STATUS	REV								F	E	E	E	F	E	F	E	E	E	E	E	E	E	E	E	E	E
OF SHEETS	SHEET								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN S. Agne 15 MAR 65 DATE
CHECKED [signature] 27 APR 65
APPROVAL [signature] 29 APR 65
APPROVAL [signature] 6-1-65

WIRING HARNESS A

NASA APPROVAL [signature] 6-1-65
MIT APPROVAL [signature] 6-6-65

CODE IDENT NO.	SIZE		REV
		1902255	F

CONTRACT NAS9-497 | SCALE 1/1 | SHEET 1 OF 173

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
46	E	82	E	118	E	154	E								
47	E	83	E	119	E	155	E								
48	E	84	E	120	E	156	E								
49	E	85	E	121	E	157	E								
50	E	86	E	122	E	158	E								
51	E	87	E	123	E	159	E								
52	E	88	E	124	E	160	E								
53	E	89	E	125	E	161	E								
54	E	90	E	126	E	162	E								
55	E	91	E	127	E	163	E								
56	E	92	E	128	E	164	E								
57	E	93	E	129	E	165	E								
58	E	94	E	130	E	166	E								
59	E	95	E	131	E	167	E								
60	E	96	E	132	E	168	E								
61	E	97	E	133	E	169	E								
62	E	98	E	134	E	170	E								
63	E	99	E	135	E	171	E								
64	E	100	E	136	E	172	E								
65	E	101	E	137	E	173	E								
66	E	102	E	138	E										
67	E	103	E	139	E										
68	E	104	E	140	E										
69	E	105	E	141	E										
70	E	106	E	142	E										
71	E	107	E	143	E										
72	E	108	E	144	E										
73	E	109	E	145	E										
74	E	110	E	146	E										
75	E	111	E	147	E										
76	E	112	E	148	E										
77	E	113	E	149	E										
78	E	114	E	150	E										
79	E	115	E	151	E										
80	E	116	E	152	E										
81	E	117	E	153	E										

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION E

NASA DRAWING NO. 1902255
SHEET 2 OF 173

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER---- A - ND1002206 B - ND1002052 C - ND1002071
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
4	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 36, OR 37 AND 38.
5	MARK LEAD IDENTIFICATION PER ND1002019.
6	UNLESS OTHERWISE SPECIFIED MARK LEAD IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES-267).
8	FASTEN MARKER SECURELY WITH ITEM 39. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
9	MARK SLEEVING WITH THE LEAD IDENTIFICATION .03/.12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A IN THE ACCESSORIES ITEM NUMBER FIELD.
10	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
11	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
12	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF CONDUCTORS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE
13	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
14	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
15	THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY K - WHITE WITH LETTER K L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER. R - WHITE WITH LETTER R OR WHITE WITH RED TRACER W - WHITE OR WHITE WITH LETTER W X - COAX OUTER CONDUCTOR Y - WHITE WITH LETTER Y OR WHITE WITH YELLOW TRACER.
16	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 39.
17	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
18	MARK INDIVIDUAL LEADS WITH LEAD IDENTIFICATION AND SUFFIX SHOWN IN LEAD CHART AND TWIST TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

19	USE A SHORT LENGTH OF WIRE, ND 1002181 AWG 20 OR 22, AS CONTACT BARREL FILLER. REMOVE INSULATION BEFORE INSERTION. AFTER CRIMP, CLIP EXCESS AND DISCARD.

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902255-001	WIRE, ND1002181 TYPE 1, CLASS 1, AWG22 WHT 600 FT TOTAL LENGTH
	2	1	1902255-002	WIRE, ND1002181 TYPE 1, CLASS 1, AWG20 WHT 620 FT TOTAL LENGTH
	3	1	1902255-003	WIRE, ND1002181 TYPE 1, CLASS 1, AWG18 WHT 3.5 FT TOTAL LENGTH
	4	1	1902255-004	WIRE, ND1002181 TYPE 1, CLASS 1, AWG16 WHT 26 FT TOTAL LENGTH
	5	1	1902255-005	WIRE, ND1002181 TYPE 1, CLASS 4, WHT JACKET AWG22 WHT 56 FT TOTAL LENGTH
	6	1	1902255-006	WIRE, ND1002181 TYPE 1, CLASS 4, WHT JACKET AWG20 WHT 14 FT TOTAL LENGTH
	7	1	1902255-007	COAX RG188/U PER MIL-C-17 200 FT TOTAL LENGTH
	8	1	1902255-008	WIRE, TWO CONDUCTOR 105 FT TOTAL LENGTH. MAKE FROM WIRE, ND1002181 TYPE 1, CLASS 1, AWG22 WHT SEE NOTE 18.
	9	1	1902255-009	WIRE, TWO CONDUCTOR 44 FT TOTAL LENGTH. MAKE FROM WIRE, ND1002181 TYPE 1, CLASS 1, AWG20 WHT SEE NOTE 18
	10	1	1902255-010	WIRE, ND1002181 TYPE 2, CLASS 4, WHT JACKET, AWG22, WHT/BLU, WHT/RED 390 FT TOTAL LENGTH
	11	1	1902255-011	WIRE, ND1002181 TYPE 2, CLASS 4, WHT JACKET, AWG20, WHT/BLU, WHT/RED 70 FT TOTAL LENGTH

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	12	1	1902255-012	WIRE, FOUR CONDUCTOR, 17 FT TOTAL LENGTH. MAKE FROM WIRE, ND1002181 TYPE 1, CLASS 1, AWG20 WHT SEE NOTE 18.
	13	1	1902255-013	WIRE, THREE CONDUCTOR, 26 FT TOTAL LENGTH. MAKE FROM WIRE ND1002181 TYPE 1, CLASS 1, AWG22 WHITE SEE NOTE 18
	14	1	1902255-014	WIRE, THREE CONDUCTOR, 13 FT TOTAL LENGTH. MAKE FROM WIRE ND1002161 TYPE 1, CLASS 1, AWG20 WHT. SEE NOTE 18.
	15	1	1902255-015	WIRE, ND1002181 TYPE 3, CLASS 4 WHT JACKET AWG22 WHT/BLU, WHT/RED, WHT/YEL 50 FT TOTAL LENGTH
	16	1	1902255-016	WIRE, ND1002181, TYPE 3, CLASS 4, WHT JACKET AWG20 WHT/BLU, WHT/RED, WHT/YEL 28 FT TOTAL LENGTH
19	17	1	1902255-017	WIRE, 1010707-001, MICRODOT, THREE CONDUCTOR SHIELDED 20 FT TOTAL LENGTH
	18	1	1902255-018	WIRE, FOUR CONDUCTOR 7 FT TOTAL LENGTH MAKE FROM WIRE ND1002181 TYPE 1, CLASS 1, AWG22 WHT. SEE NOTE 18.
17	19	1	MS3127E24-61PW	(1897055-611) CONNECTOR RECEPTACLE ELEC
17	20	1	MS3127E24-61S	(1897056-610) CONNECTOR RECEPTACLE ELEC
17	21	1	MS3127E24-61SW	(1897056-611) CONNECTOR RECEPTACLE ELEC
	22	1	MS3102R28-20PW	(1896862-201) CONNECTOR RECEPTACLE ELEC
	23	1	1902080- 1	CONNECTOR RECEPTACLE ELEC

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	24	1	1902080- 2	CONNECTOR RECEPTACLE ELEC
	25	1	1902080- 3	CONNECTOR RECEPTACLE ELEC
	26	1	1902080- 4	CONNECTOR RECEPTACLE ELEC
	27	1	1902080- 6	CONNECTOR RECEPTACLE ELEC
	28	1	1902080- 7	CONNECTOR RECEPTACLE ELEC
	29	1	1902080- 8	CONNECTOR RECEPTACLE ELEC
	30	1	1902080- 9	CONNECTOR RECEPTACLE ELEC
	31	1	1902080- 10	CONNECTOR RECEPTACLE ELEC
	32	1	1902080- 11	CONNECTOR RECEPTACLE ELEC
	33	1	MS3127E24-61SZ	(1897056-614) CONNECTOR RECEPTACLE ELEC
14	35	1	1016128-011	BAND IDENTIFICATION
	36	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	37	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	38	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	39	AR	MIL-T-713	TYPE P LACING TAPE (ES2732 NO. 18)
14	40	49	1015908-021	CONTACT COAXIAL, SOCKET
14	41	49	1015908-041	CONTACT COAXIAL, CUTER MALE BODY
14	42	49	1015908-051	CONTACT COAXIAL, HYRING

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
14	43	21	1015864-135	INSULATION SLEEVING ELEC
14	44	30	1015864-109	INSULATION SLEEVING ELEC
14	45	25	1015864-167	INSULATION SLEEVING ELEC
14	46	467	1016113-011	CONNECTOR CONTACT
14	47	202	1015864-168	INSULATION SLEEVING ELEC
14	48	338	1015966-003	CONTACT TERMINAL TIP
14	49	394	1015966-001	CONTACT TERMINAL TIP
14	50	94	1015902-049	TERMINAL LUG
14	51	6	1015902-050	TERMINAL LUG
14	52	100	1000242-002	FERRULE ELEC (OUTER)
14	53	100	1000243-003	FERRULE ELEC (INNER)
14	54	4	1000242-004	FERRULE ELEC (OUTER)
14	55	4	1000243-005	FERRULE ELEC (INNER)
14	56	146	1000242-007	FERRULE ELEC (OUTER)
14	57	146	1000243-008	FERRULE ELEC (INNER)
14	58	25	1000242-009	FERRULE ELEC (OUTER)
14	59	46	1000243-011	FERRULE ELEC (INNER)
14	60	8	1000243-015	FERRULE ELEC (INNER)

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
14	61	8	1000242-016	FERRULE ELEC (OUTER)
14	62	16	1010490-196	INSULATION SLEEVING ELEC HEAT SHRINK
14	63	550	1010490-198	INSULATION SLEEVING ELEC HEAT SHRINK
14	64	6	1010763-002	SLEEVE, SOLDER
14	65	21	1000242-011	FERRULE ELEC (OUTER)
14	66	5	1015864-108	INSULATION SLEEVING, ELEC.
14	67	10	1010490-200	INSULATION SLEEVING ELEC HEAT SHRINK
14	68	10	1016006-003	SPLICE REDUCER
14	69	7	1016284-001	SPLICER
14	70	10	1016006-001	SPLICE REDUCER
14	71	10	1016006-002	SPLICE REDUCER
14	72	10	1010490-258	INSULATION SLEEVING ELEC HEAT SHRINK
14	73	10	1010490-256	INSULATION SLEEVING ELEC HEAT SHRINK
17	74	1	MS3127E18-32S	(1897122-320) CONNECTOR RECEPTACLE ELEC.
17	75	1	MS3127E18-32SX	(1897122-322) CONNECTOR RECEPTACLE ELEC.
17	76	1	MS3127E18-32SY	(1897122-323) CONNECTOR RECEPTACLE ELEC.
17	77	1	MS3127E18-32SZ	(1897122-324) CONNECTOR RECEPTACLE ELEC.
17	78	1	MS3127E22-55SY	(1897054-553) CONNECTOR RECEPTACLE ELEC.

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
17	79	1	MS3127E24-61SX	(1897056-612) CONNECTOR RECEPTACLE ELEC.
17	80	2	MS3127E24-61SY	(1897056-613) CONNECTOR RECEPTACLE ELEC.
17	81	1	MS3127E24-61PY	(1897055-613) CONNECTOR RECEPTACLE ELEC
17	82	1	MS3127E24-61PX	(1897055-612) CONNECTOR RECEPTACLE ELEC
	83	1	MS3102R28-20P	(1896862-200) CONNECTOR RECEPTACLE ELEC
17	84	1	MS3127E24-61P	(1897055-610) CONNECTOR RECEPTACLE ELEC
	85	2	1900899	ADAPTER, CONNECTOR
14	86	8	1006783-23	SCREW
14	87	15	1010490-148	INSULATION SLEEVING ELEC. HEAT SHRINK

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	15			3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A	1A	1	SHLD A1 J13-A	 91				.25 NO .25 NO				
A	1B	1	J25-C1 SHLD A1	80				.25 YES .25 NO			47	
A	1L		J13-L J25-D1	91 80				.25 NO .25 YES			47	
A	1R		J13-K J25-C2	91 80				.25 NO .25 YES			47	
A	1Y		J13-M J25-C1	91 80				.25 NO .25 YES				
A	2	15			3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A	2A	1	SHLD A2 J13-S	 91				.25 NO .25 NO				
A	2B	1	J25-F2 SHLD A2	80				.25 YES .25 NO			47	
A	2L		J13-H J25-D2	91 80				.25 NO .25 YES			47	
A	2R		J13-G J25-F1	91 80				.25 NO .25 YES			47	
A	2Y		J13-J J25-F2	91 80				.25 NO .25 YES				

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3	15			3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A	3A	1	SHLD A3 J13-T	 91				.25 NO .25 NO				
A	3B	1	J25-D3 SHLD A3	80				.25 YES .25 NO			47	
A	3L		J13-P J25-C3	91 80				.25 NO .25 YES			47	
A	3R		J13-N J25-D4	91 80				.25 NO .25 YES			47	
A	3Y		J13-R J25-D3	91 80				.25 NO .25 YES				
A	4	7			.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	4B	1	TB1-40A SHLD A4	26				.15 NO .25 NO			49	
A	4E		J10-E1 TB1-39A	97 26				.15 NO .15 NO			40 49	
A	4X		J10-E2 SHLD A4	97								
A	5	7			.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	5B	1	TB1-40B SHLD A5	26				.15 NO .25 NO			49	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	5E		J10-F1 TB1-39B	97 26				.15 NO .15 NO			40 49	
A	5X		J10-F2 SHLD A5	97								
A	6	7			.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	6B	1	TB1-40C SHLD A6	26				.15 NO .25 NO			49	
A	6E		J9-A1 TB1-39C	107 26				.15 NO .15 NO			40 49	
A	6X		J9-A2 SHLD A6	107								
A	7	7			.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	7B	1	TB1-40D SHLD A7	26				.15 NO .25 NO			49	
A	7E		J9-B1 TB1-39D	107 26				.15 NO .15 NO			40 49	
A	7X		J9-B2 SHLD A7	107								
A	8	8										
A	8L		TB1-39B J25-C4	25 80				.15 NO .25 YES			49 47	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 78	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 78B	1		E21 SHLD A78	167				.25 .25	NO NO			
A 78L			J12-U TB1-16A	113 10				.25 .15	NO NO		48	
A 78R			J12-T TB1-15A	113 10				.25 .15	NO NO		48	
A 79	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 79B	1		E21 SHLD A79	167				.25 .25	NO NO			
A 79L			J14-I* TB1-16D	111 10				.25 .15	NO NO		49	
A 79R			J14-H* TB1-15D	111 10				.25 .15	NO NO		49	
A 80	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 80B	1		E21 SHLD A80	167				.25 .25	NO NO			
A 80L			J25-P5 TB1-16B	80 10				.20 .15	NO NO		46 49	
A 80R			J25-P6 TB1-15B	80 10				.20 .15	NO NO		46 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 81	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 81B	1		E21 SHLD A81	167				.25 .25	NO NO			
A 81L			J26-S3 TB1-16C	79 10				.20 .15	NO NO		46 49	
A 81R			J26-S4 TB1-15C	79 10				.20 .15	NO NO		46 49	
A 82	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 82A	1		SHLD A82 E16	176				.25 .25	NO NO			
A 82L			J26-P4 J1-B	79 86				.20 .25	NO NO		46	
A 82R			J26-S4 J1-A	79 86				.20 .25	NO NO			
A 83	8											
A 83L			J21-N4 TB1-16B	84 9				.20 .15	NO NO		46 49	
A 83R			J21-N5 TB1-15B	84 9				.20 .15	NO NO		46 49	
A 84	11				2.25 2.25	2.00 2.00				B,7 A,4	63 59, 58, 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 84B	1		E21 SHLD A84	107				.25 .25	NO NO			
A 84L			J30-F8 TB1-16C	75 9				.25 .15	YES NO		47 48	
A 84R			J30-F9 TB1-15C	75 9				.25 .15	YES NO		47 48	
A 85	2		J30-M1 TB2-41A	75 63				.20 .15	NO NO		46 48	
A 86	2		J30-M2 TB2-41B	75 63				.20 .15	NO NO		46 48	
A 87	2		J30-N1 TB2-41B	75 64				.20 .15	NO NO		46 48	
A 88	2		J30-N2 TB2-41C	75 63				.20 .15	NO NO		46 48	
A 89	2		J30-L1 TB2-43B	75 66				.20 .15	NO NO		46 48	
A 90	2		J30-L2 TB2-43C	75 65				.20 .15	NO NO		46 48	
A 92	2		TB2-42D TB2-43A	66 66				.15 .15	NO NO		48 48	
A 93	2		J3-H* TB2-43C	85 66				.25 .15	NO NO		48	
A 94	2		J2-D TB2-42C	87 66				.25 .15	NO NO		48	

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SCALE-NONE	REV LTR E	SHEET 33 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	2		J12-PP TB2-41D	113 63				.25 .15	NO NO		48	
A 96	2		TB2-41A TB1-1B	64 2				.15 .15	NO NO		48 48	
A 97	2		TB2-42A TB1-1C	66 2				.15 .15	NO NO		48 48	
A 98	2		J21-S1 TB1-1A	84 1				.20 .15	NO NO		46 48	
A 99	2		J21-S2 TB1-1B	84 1				.20 .15	NO NO		46 48	
A 100	2		J21-S4 TB1-1C	84 1				.20 .15	NO NO		46 48	
A 101	2		J21-S5 TB1-1D	84 1				.20 .15	NO NO		46 48	
A 102	2		TB2-41D TB1-17B	64 12				.15 .15	NO NO		48 48	
A 103	2		TB2-41C TB1-17C	64 12				.15 .15	NO NO		48 48	
A 106	2		TB1-17B J22-S1	11 83				.15 .20	NO NO		48 46	
A 107	2		TB1-17C J22-S2	11 83				.15 .20	NO NO		48 46	
A 108	2		TB1-17A J22-S3	11 83				.15 .20	NO NO		48 46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 34 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 130	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 130A	1		SHLD A130 E28	 192				.25 .25	NO NC			
A 130L			J14-NN J26-F1	111 79				.25 .25	NO YES		 47	
A 130R			J14-MM J26-D1	111 79				.25 .25	NO YES		 47	
A 131	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 131A	1		SHLD A131 E27	 189				.25 .25	NO NO			
A 131L			J13-G* TB1-2D	91 2				.25 .15	NO NO		 49	
A 131R			J13-P* TB1-2B	91 2				.25 .15	NO NO		 49	
A 132	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 132A	1		SHLD A132 E27	 189				.25 .25	NO NO			
A 132L			J13-N* J26-D2	91 79				.25 .25	NO YES		 47	
A 132R			J13-M* J26-C1	91 79				.25 .25	NO YES		 47	

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MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 133A	1		SHLD A133 E22	 170				.25 .25	NO NO			
A 133L			TB1-2C J26-D2	2 79				.15 .25	NO YES		 49	
A 133R			TB1-2A J26-C2	2 79				.15 .25	NO YES		 49 47	
A 134	8											
A 134L			TB1-2C J21-B1	1 84				.15 .20	NO NO		 49 46	
A 134R			TB1-2B J21-A1	1 84				.15 .20	NO NO		 49 46	
A 135	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 135A	1		SHLD A135 E22	 170				.25 .25	NO NO			
A 135L			J21-C1 J3-H	84 85				.20 .25	NO NO		 46	
A 135R			J21-B1 J3-J	84 85				.20 .25	NO NO			
A 136	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	

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MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 136A	1		SHLD A136 E16	 176				.25 .25	NO NO			
A 136H			J26-M2 J22-H5	79 83				.20 .20	NO NO		46 46	
A 137	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 137A	1		SHLD A137 E27	 169				.25 .25	NO NO			
A 137L			J13-Z* J26-F3	91 79				.25 .25	NO YES		 47	
A 137R			J13-Y* J26-C3	91 79				.25 .25	NO YES		 47	
A 138	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 138A	1		SHLD A138 E27	 189				.25 .25	NO NO			
A 138L			J13-V* J26-D4	91 79				.25 .25	NO YES		 47	
A 138R			J13-U* J26-C3	91 79				.25 .25	NO YES		 47	
A 139	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 139B	1		E22 SHLD A139	170				.25 .25	NO NO			

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MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 139L			J26-D4 TB1-3C	79 2				.25 .15	YES NO		 49	
A 139R			J26-C4 TB1-3A	79 2				.25 .15	YES NO		47 49	
A 140	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 140A	1		SHLD A140 E27	 189				.25 .25	NO NO			
A 140L			J13-X* TB1-3D	91 2				.25 .15	NO NO		 49	
A 140R			J13-W* TB1-3B	91 2				.25 .15	NO NO		 49	
A 141	8											
A 141L			TB1-3C J21-B2	1 84				.15 .20	NO NO		 49 46	
A 141R			TB1-3A J21-A2	1 84				.15 .20	NO NO		 49 46	
A 142	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 142B	1		E22 SHLD A142	170				.25 .25	NO NO			
A 142L			J3-L J21-C2	85 84				.25 .20	NO NO		 46	

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MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170A	1		SHLD A170					.25	NO			
			E23	166				.25	NO			
A 170L			J1-W	86				.25	NO			
			J26-G1	79				.20	NO		46	
A 170R			J1-X	86				.25	NO			
			J26-H1	79				.20	NO		46	
A 171	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 171A	1		SHLD A171					.25	NO			
			E16	176				.25	NO			
A 171L			J26-G2	79				.20	NO		46	
			J11-G*	114				.25	NO			
A 171R			J26-G1	79				.20	NO			
			J11-F*	114				.25	NO			
A 172	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 172A	1		SHLD A172					.25	NO			
			E23	166				.25	NO			
A 172L			J1-G	86				.25	NO			
			J26-G3	79				.20	NO		46	
A 172R			J1-H	86				.25	NO			
			J26-H3	79				.20	NO		46	
A 173	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TLRM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 173A	1		SHLD A173					.25	NO			
			E16	176				.25	NO			
A 173L			J26-G4	79				.20	NO		46	
			J11-T*	114				.25	NO			
A 173R			J26-G3	79				.20	NO			
			J11-S*	114				.25	NO			
A 174	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 174A	1		SHLD A174					.25	NO			
			E23	166				.25	NO			
A 174L			J1-C	86				.25	NO			
			J26-F7	79				.25	YES		47	
A 174R			J1-D	86				.25	NO			
			J26-D7	79				.25	YES		47	
A 175	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 175A	1		SHLD A175					.25	NO			
			E17	171				.25	NO			
A 175L			J26-F8	79				.25	YES		47	
			J11-BB	114				.25	NO			
A 175R			J26-F7	79				.25	YES			
			J11-AA	114				.25	NO			
A 176	1		J14-LL	111				.25	NO			
			J26-A7	79				.25	YES		47	

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SCALE - NONE	REV LTR E	SHEET 52 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 177	1		J14-DD	111				.25	NO			
			J26-M1	79				.20	NO		46	
A 178	1		J14-M	111				.25	NO			
			J26-S1	79				.20	NO		46	
A 179	1		J14-N	111				.25	NO			
			J26-T1	79				.20	NO		46	
A 180	1		J14-P	111				.25	NO			
			J26-T2	79				.20	NO		46	
A 181	13											
A 181L			J26-L3	79				.20	NO		46	
			TB1-52C	33				.15	NO		49	
A 181R			J26-L4	79				.20	NO		46	
			TB1-52A	33				.15	NO		49	
A 181Y			J26-M4	79				.20	NO		46	
			TB1-52B	33				.15	NO		49	
A 182	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 182A	1		SHLD A182					.25	NO			
			TB1-52C	34				.15	NO		49	
A 182B	1		TB1-18A	12				.15	NO		49	
			SHLD A182					.25	NO			
A 182E			TB1-52A	34				.15	NO		49	
			TB1-19A	12				.15	NO		49	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 183	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 183A	1		SHLD A183					.25	NO			
			TB1-52D	34				.15	NO		49	
A 183B	1		TB1-18D	12				.15	NO		49	
			SHLD A183					.25	NO			
A 183E			TB1-52B	34				.15	NO		49	
			TB1-19C	12				.15	NO		49	
A 184	7				2.25	2.00				A,5	53, 52, 63	
					.52	.25				B,10	41, 42, 63	
A 184A	1		SHLD A184					.25	NO			
			TB1-18B	12				.15	NO		49	
A 184E			TB1-19B	12				.15	NO		49	
			J7-B1	95				.15	NO		40	
A 184X			SHLD A184									
			J7-B2	95								
A 185	7				2.25	2.00				A,5	53, 52, 63	
					.52	.25				B,10	41, 42, 63	
A 185A	1		SHLD A185					.25	NO			
			TB1-18B	11				.15	NO		49	
A 185E			TB1-19D	11				.15	NO		49	
			J7-A1	95				.15	NO		40	
A 185X			SHLD A185									
			J7-A2	95								

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SCALE - NONE	REV LTR E	SHEET 54 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 186	13											
A 186L			TB1-18A J22-F1	11 83				.15 .20	NO NO		49 46	
A 186R			TB1-19A J22-D1	11 83				.15 .20	NO NO		49 46	
A 186Y			TB1-19C J22-D2	11 83				.15 .20	NO NO		49 46	
A 187	11				3.25 4.50	3.00 4.25				B,7 A,4	63 59, 58, 63	
A 187B	1		E17 SHLD A187	171				.25 .25	NO NO			
A 187L			J17-Q* TB2-1A	109 37				.25 .15	NO NO		 A 87, 48	
A 187R			J17-P* TB1-53A	109 35				.25 .15	NO NO		 A 87, 48	
A 188	10				3.25 4.50	3.00 4.25				B,7 A,4	63 57, 56, 63	
A 188B	1		E17 SHLD A188	171				.25 .25	NO NO			
A 188L			J16-NN TB2-1B	112 38				.25 .15	NO NO		 A 87, 49	
A 188R			J16-MM TB1-53B	112 36				.25 .15	NO NO		 A 87, 49	

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SCALE - NONE	REV LTR E	SHEET 55 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 189	10				3.25 4.50	3.00 4.25				B,7 A,4	63 57, 56, 63	
A 189B	1		E17 SHLD A189	171				.25 .25	NO NO			
A 189L			J18-E TB2-1C	96 38				.25 .15	NO NO		 A 87, 49	
A 189R			J18-D TB1-53C	96 36				.25 .15	NO NO		 A 87, 49	
A 190	10				3.25 4.50	3.00 4.25				B,7 A,4	63 57, 56, 63	
A 190B	1		E17 SHLD A190	171				.25 .25	NO NO			
A 190L			J19-E TB2-1A	106 38				.25 .15	NO NO		 A 87, 49	
A 190R			J19-D TB1-53A	106 36				.25 .15	NO NO		 A 87, 49	
A 191	11				3.25 4.50	3.00 4.25				B,7 A,4	63 59, 58, 63	
A 191B	1		E17 SHLD A191	171				.25 .25	NO NO			
A 191L			J31-I* TB2-1B	89 37				.25 .15	NO NO		 A 87, 48	
A 191R			J31-H* TB1-53B	89 35				.25 .15	NO NO		 A 87, 48	

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SCALE - NONE	REV LTR E	SHEET 56 OF 173

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 192	11				3.25 4.50	3.00 4.25				B,7 A,4	63 59, 58, 63	
A 192B	1		E17 SHLD A192	171				.25 .25	NO NO			
A 192L			J32-P* TB2-1C	90 37				.25 .15	NO NO		 A 87, 48	
A 192R			J32-N* TB1-53C	90 35				.25 .15	NO NO		 A 87, 48	
A 193	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 193B	1		E18 SHLD A193	175				.25 .25	NO NO			
A 193L			J28-S1 TB1-55C	77 35				.20 .15	NO NO		46 49	
A 193R			J28-T1 TB1-54C	77 35				.20 .15	NO NO		46 49	
A 194	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 194B	1		E18 SHLD A194	175				.25 .25	NO NO			
A 194L			J29-S6 TB1-55B	76 35				.20 .15	NO NO		46 49	
A 194R			J29-T6 TB1-54B	76 35				.20 .15	NO NO		46 49	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 195B	1		E18 SHLD A195	175				.25 .25	NO NO			
A 195L			J30-G5 TB1-55B	75 36				.20 .15	NO NO		46 49	
A 195R			J30-G6 TB1-54B	75 36				.20 .15	NO NO		46 49	
A 196	2		TB1-53D TB1-54D	36 36				.15 .15	NO NO		48 48	
A 197	2		TB1-55D TB2-1D	36 38				.15 .15	NO NO		48 48	
A 198	9											
A 198L			TB1-55D J26-N5	35 79				.15 .20	NO NO		48 46	
A 198R			TB1-53D J26-P5	35 79				.15 .20	NO NO		48 46	
A 199	8											
A 199L			TB2-1D J26-N5	37 79				.15 .20	NO NO		49	
A 199R			TB1-54D J26-P5	35 79				.15 .20	NO NO		49	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 200	1		J30-G5	75				.20	NO			
			J30-G4	75				.20	NO		46	
A 201	5				2.25	2.00				A,4	53, 52, 63	
					3.25	3.00				B,7	63	
A 201A	1		SHLD A201					.25	NO			
			E18	175				.25	NO			
A 201W			J26-R4	79				.20	NO		46	
			J12-K*	113				.25	NO			
A 202	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 202B	1		E18	175				.25	NO			
			SHLD A202					.25	NO			
A 202L			J16-GG	112				.25	NO			
			TB2-3A	37				.15	NO		49	
A 202R			J16-FF	112				.25	NO			
			TB2-2A	37				.15	NO		49	
A 203	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 203B	1		E18	175				.25	NO			
			SHLD A203					.25	NO			
A 203L			J18-G	96				.25	NO			
			TB2-3B	37				.15	NO		48	
A 203R			J18-F	96				.25	NO			
			TB2-2B	37				.15	NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 204	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 204B	1		E18	175				.25	NO			
			SHLD A204					.25	NO			
A 204L			J19-G	106				.25	NO			
			TB2-3C	38				.15	NO		48	
A 204R			J19-F	106				.25	NO			
			TB2-2C	38				.15	NO		48	
A 205	10				2.25	2.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 205B	1		E18	175				.25	NO			
			SHLD A205					.25	NO			
A 205L			J30-H5	75				.20	NO		46	
			TB2-3D	37				.15	NO		49	
A 205R			J30-H6	75				.20	NO		46	
			TB2-2D	37				.15	NO		49	
A 206	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 206B	1		E18	175				.25	NO			
			SHLD A206					.25	NO			
A 206L			J31-K*	89				.25	NO			
			TB2-3A	38				.15	NO		48	
A 206R			J31-J*	89				.25	NO			
			TB2-2A	38				.15	NO		48	

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SCALE - NONE	REV LTR E	SHEET 60 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 207B	1		E18	175				.25	NO			
			SHLD A207					.25	NO			
A 207L			J32-R*	90				.25	NO			
			TB2-3B	38				.15	NO		48	
A 207R			J32-Q*	90				.25	NO			
			TB2-2B	38				.15	NO		48	
A 208	9											
A 208L			TB2-3C	37				.15	NO		48	
			J26-N6	79				.20	NO		46	
A 208R			TB2-2C	37				.15	NO		48	
			J26-P6	79				.20	NO		46	
A 209	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 209B	1		E15	177				.25	NO			
			SHLD A209					.25	NO			
A 209L			J11-N	114				.25	NO			
			J27-B4	78				.25	YES		47	
A 209R			J11-M	114				.25	NO			
			J27-A4	78				.25	YES		47	
A 210	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	

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SCALE - NONE	REV LTR E	SHEET 61 OF 173

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 210B	1		E15	177				.25	NO			
			SHLD A210					.25	NO			
A 210L			J11-R	114				.25	NO			
			J27-D4	78				.25	YES		47	
A 210R			J11-P	114				.25	NO			
			J27-C4	78				.25	YES		47	
A 211	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 211B	1		E15	177				.25	NO			
			SHLD A211					.25	NO			
A 211L			J11-X	114				.25	NO			
			J27-B3	78				.25	YES		47	
A 211R			J11-W	114				.25	NO			
			J27-A3	78				.25	YES		47	
A 212	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 212B	1		E15	177				.25	NO			
			SHLD A212					.25	NO			
A 212L			J11-T	114				.25	NO			
			J27-C1	78				.25	YES		47	
A 212R			J11-S	114				.25	NO			
			J27-D1	78				.25	YES		47	
A 213	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

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SCALE - NONE	REV LTR E	SHEET 62 OF 173

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 213A	1		SHLD A213					.25	NO			
			E23	166				.25	NO			
A 213L			J3-P	85				.25	NO			
			J27-C1	78				.25	YES			
A 213R			J3-R	85				.25	NO			
			J27-C2	78				.25	YES		47	
A 214	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 214B	1		E15	177				.25	NO			
			SHLD A214					.25	NO			
A 214L			J11-V	114				.25	NO			
			J27-D3	78				.25	YES		47	
A 214R			J11-U	114				.25	NO			
			J27-C3	78				.25	YES		47	
A 215	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 215A	1		SHLD A215					.25	NO			
			E23	166				.25	NO			
A 215L			J3-M	85				.25	NO			
			J27-D3	78				.25	YES			
A 215R			J3-N	85				.25	NO			
			J27-D2	78				.25	YES		47	
A 216	1		J17-P	109				.25	NO			
			J28-R1	77				.20	NO		46	

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SCALE-NONE	REV LTR E	SHEET 63 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J28-R1	77				.20	NO			
			J29-R6	76				.20	NO		46	
A 218	1		J17-S*	109				.25	NO			
			J28-R2	77				.20	NO		46	
A 219	1		J17-BB	109				.25	NO			
			J28-T3	77				.20	NO		46	
A 220	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 220A	1		SHLD A220					.25	NO			
			J31-S	89				.25	NO			
A 220B	1		J29-B1	76				.25	YES		47	
			SHLD A220					.25	NO			
A 220E			J31-R	89				.25	NO			
			J29-A1	76				.25	YES		47	
A 221	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 221A	1		SHLD A221					.25	NO			
			J31-P	89				.25	NO			
A 221B	1		J29-C1	76				.25	YES		47	
			SHLD A221					.25	NO			
A 221L			J31-M	89				.25	NO			
			J29-C2	76				.25	YES		47	
A 221R			J31-L	89				.25	NO			
			J29-C1	76				.25	YES			

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SCALE-NONE	REV LTR E	SHEET 64 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 222	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 222A	1		SHLD A222					.25	NO			
			TB3-16A	154				.16	NO		49	
A 222L			J19-N	106				.25	NO			
			J29-C6	76				.25	YES		47	
A 222R			J19-M	106				.25	NO			
			J29-C5	76				.25	YES		47	
A 223	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 223A	1		SHLD A223					.25	NO			
			J19-Z	106				.25	NO			
A 223B	1		J29-H1	76				.20	NO		46	
			SHLD A223					.25	NO			
A 223E			J19-Y	106				.25	NO			
			J29-G1	76				.20	NO		46	
A 224	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 224A	1		SHLD A224					.25	NO			
			TB3-16C	154				.16	NO		49	
A 224L			J19-X	106				.25	NO			
			J29-K2	76				.20	NO		46	
A 224R			J19-W	106				.25	NO			
			J29-K1	76				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 225	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 225B	1		EB	180				.25	NO			
			SHLD A225					.25	NO			
A 225L			J19-V	106				.25	NO			
			J29-P1	76				.20	NO		46	
A 225R			J19-U	106				.25	NO			
			J29-P2	76				.20	NO		46	
A 226	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 226A	1		SHLD A226					.25	NO			
			J19-EE	106				.25	NO			
A 226B	1		J29-B4	76				.25	YES		47	
			SHLD A226					.25	NO			
A 226L			J19-R*	106				.25	NO			
			J29-B4	76				.25	YES			
A 226R			J19-S*	106				.25	NO			
			J29-B5	76				.25	YES		47	
A 227	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 227A	1		SHLD A227					.25	NO			
			J19-X*	106				.25	NO			
A 227B	1		J29-B6	76				.25	YES		47	
			SHLD A227					.25	NO			

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SCALE-NONE	REV LTR E	SHEET 66 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 258	8											
A 258L			J12-GG	113				.25	NO			
			J30-F1	75				.25	YES		47	
A 258R			J12-FF	113				.25	NO			
			J30-D1	75				.25	YES		47	
A 259	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 259A	1		SHLD A259					.25	NO			
			E25	188				.25	NO			
A 259L			J31-X*	89				.25	NO			
			J30-D7	75				.25	YES		47	
A 259R			J31-W*	89				.25	NO			
			J30-D6	75				.25	YES		47	
A 260	1		J17-MM	109				.25	NO			
			J30-F2	75				.25	YES		47	
A 261	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 261B	1		TB1-22D	14				.15	NO		49	
			SHLD A261					.25	NO			
A 261E			J8-A1	94				.15	NO		40	
			TB1-22B	14				.15	NO		49	
A 261X			J8-A2	94								
			SHLD A261									

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 262	8											
A 262L			TB1-22C	13				.15	NO		49	
			J22-H1	83				.20	NO		46	
A 262R			TB1-22A	13				.15	NO		49	
			J22-K1	83				.20	NO		46	
A 263	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 263A	1		SHLD A263					.25	NO			
			TB1-22C	14				.15	NO		49	
A 263B	1		J30-D3	75				.25	YES		47	
			SHLD A263					.25	NO			
A 263E			TB1-22A	14				.15	NO		49	
			J30-F3	75				.25	YES		47	
A 264	8											
A 264L			J12-J	113				.25	NO			
			J30-G1	75				.20	NO		46	
A 264R			J12-H	113				.25	NO			
			J30-G2	75				.20	NO		46	
A 265	1		J30-K6	75				.20	NO		46	
			J30-L6	75				.20	NO		46	
A 266	1		J30-K5	75				.20	NO		46	
			J30-L5	75				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 267	9											
A 267L			J30-K5	75				.20	NO			
			TB2-44D	65				.15	NO		48	
A 267R			J30-L6	75				.20	NO			
			TB2-44B	65				.15	NO		48	
A 268	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 268A	1		SHLD A268					.25	NO			
			E7	181				.25	NO			
A 268L			TB2-44C	65				.15	NO		49	
			J22-K4	83				.20	NO		46	
A 268R			TB2-44A	65				.15	NO		49	
			J22-H4	83				.20	NO		46	
A 269	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 269A	1		SHLD A269					.25	NO			
			E28	192				.25	NO			
A 269L			J15-N	110				.25	YES		66	
			J30-M3	75				.20	NO		46	
A 269R			J15-M	110				.25	YES		66	
			J30-N3	75				.20	NO		46	
A 270	2		J30-M6	75				.20	NO		46	
			J22-G4	83				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 271	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 271A	1		SHLD A271					.25	NO			
			E7	181				.25	NO			
A 271L			TB2-44C	66				.15	NO		49	
			J14-N*	111				.25	NO			
A 271R			TB2-44A	66				.15	NO		49	
			J14-M*	111				.25	NO			
A 272	11				2.25	2.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 272A	1		SHLD A272					.25	NO			
			E7	181				.25	NO			
A 272L			TB2-44D	66				.15	NO		48	
			J12-N	113				.25	NO			
A 272R			TB2-44B	66				.15	NO		48	
			J12-M	113				.25	NO			
A 273	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 273A	1		SHLD A273					.25	NO			
			E12	196				.25	NO			
A 273E			J17-Z	109				.25	NO			
			J30-H4	75				.20	NO		46	
A 274	2		J17-AA	109				.25	NO			
			TB2-45A	68				.15	NO		48	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 290A	1		SHLD A290					.25	NO			
			E25	188				.25	NO			
A 290L			J32-T	90				.25	NO			
			J18-C*	96				.25	NO			
A 290R			J32-S	90				.25	NO			
			J18-D*	96				.25	NO			
A 291	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 291A	1		SHLD A291					.25	NO			
			E25	188				.25	NO			
A 291L			J32-H*	90				.25	NO			
			J19-M*	106				.25	NO			
A 291R			J32-G*	90				.25	NO			
			J19-N*	106				.25	NO			
A 292	7				.52	.25				B,10	41, 42, 63	
					.52	.25				B,10	41, 42, 63	
A 292E			J6-J1	108				.15	NO		40	
			J6-G1	108				.15	NO		40	
A 292X			J6-J2	108								
			J6-G2	108								
A 293	4		J20-L	93				.25	YES		66	
			J20-M	93				.25	YES		66	
A 294	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 294A	1		SHLD A294					.25	NO			
			E7	161				.25	NO			
A 294L			J4-C*	88				.25	NO			
			J24-A2	81				.20	NO		46	
A 294R			J4-B*	88				.25	NO			
			J24-A1	81				.20	NO		46	
A 295	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 295B	1		E19	172				.25	NO			
			SHLD A295					.25	NO			
A 295L			J4-L	88				.25	NO			
			J24-P3	81				.20	NO		46	
A 295R			J4-K	88				.25	NO			
			J24-P1	81				.20	NO		46	
A 295Y			J4-M	88				.25	NO			
			J24-P2	81				.20	NO		46	
A 296	2		J4-E*	88				.25	NO			
			T83-1B	139				.25	NO		50	
A 297	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 297B	1		T81-33C	22				.15	NO		49	
			SHLD A297					.25	NO			
A 297E			J9-J1	107				.15	NO		40	
			T81-33A	22				.15	NO		49	

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MIL 8064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 297X			J9-J2	107								
			SHLD A297									
A 298	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 298B	1		T81-33D	22				.15	NO		49	
			SHLD A298					.25	NO			
A 298E			J9-G1	107				.15	NO		40	
			T81-33B	22				.15	NO		49	
A 298X			J9-G2	107								
			SHLD A298									
A 299	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 299B	1		T81-34C	22				.15	NO		49	
			SHLD A299					.25	NO			
A 299E			J9-H1	107				.15	NO		40	
			T81-34A	22				.15	NO		49	
A 299X			J9-H2	107								
			SHLD A299									
A 300	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 300B	1		T81-34D	22				.15	NO		49	
			SHLD A300					.25	NO			
A 300E			J9-K1	107				.15	NO		40	
			T81-34B	22				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 300X			J9-K2	107								
			SHLD A300									
A 301	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 301B	1		T81-35C	24				.15	NO		49	
			SHLD A301					.25	NO			
A 301E			J10-B1	97				.15	NO		40	
			T81-35A	24				.15	NO		49	
A 301X			J10-B2	97								
			SHLD A301									
A 302	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 302B	1		T81-35D	24				.15	NO		49	
			SHLD A302					.25	NO			
A 302E			J10-A1	97				.15	NO		40	
			T81-35B	24				.15	NO		49	
A 302X			J10-A2	97								
			SHLD A302									
A 303	1		T81-33C	21				.15	NO		49	
			T81-34C	21				.15	NO		49	
A 304	1		T81-34D	21				.15	NO		49	
			T81-35C	23				.15	NO		49	
A 305	8											

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 86 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 305L			T81-33B	21				.15	NO		49	
			J24-D2	81				.20	NO		46	
A 305R			T81-33A	21				.15	NO		49	
			J24-D1	81				.20	NO		46	
A 306	8											
A 306L			T81-34B	21				.15	NO		49	
			J24-D4	81				.20	NO		46	
A 306R			T81-34A	21				.15	NO		49	
			J24-D3	81				.20	NO		46	
A 307	8											
A 307L			T81-35B	23				.15	NO		49	
			J24-D6	81				.20	NO		46	
A 307R			T81-35A	23				.15	NO		49	
			J24-D5	81				.20	NO		46	
A 308	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 308B	1		E19	172				.25	NO			
			SHLD A308					.25	NO			
A 308L			J4-M	88				.25	NO			
			J24-M3	81				.20	NO		46	
A 308R			J4-G	88				.25	NO			
			J24-M1	81				.20	NO		46	

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SCALE-NONE	REV LTR E	SHEET 87 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 308Y			J4-J	88				.25	NO			
			J24-M2	81				.20	NO		46	
A 309	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 309B	1		E19	172				.25	NO			
			SHLD A309					.25	NO			
A 309L			J4-B	88				.25	NO			
			J24-N6	81				.20	NO		46	
A 309R			J4-A	88				.25	NO			
			J24-L6	81				.20	NO		46	
A 309Y			J4-C	88				.25	NO			
			J24-M6	81				.20	NO		46	
A 310	1		J24-G1	81				.20	NO		46	
			J23-H6	82				.20	NO		46	
A 311	8											
A 311L			J24-K1	81				.20	NO		46	
			J23-L6	82				.20	NO		46	
A 311R			J24-H1	81				.20	NO		46	
			J23-K6	82				.20	NO		46	
A 312	1		J24-A6	81				.20	NO		46	
			J23-A6	82				.20	NO		46	
A 313	1		J24-K3	81				.20	NO		46	
			T81-29B	19				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 314	1		J24-H3	81				.20	NO		46	
			T81-29D	19				.15	NO		49	
A 315	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 315B	1		T81-30A	20				.15	NO		49	
			SHLD A315					.25	NO			
A 315E			J6-B1	108				.15	NO		40	
			T81-29C	20				.15	NO		49	
A 315X			J6-B2	108								
			SHLD A315									
A 316	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 316B	1		T81-30B	20				.15	NO		49	
			SHLD A316					.25	NO			
A 316E			J10-C1	97				.15	NO		40	
			T81-29A	20				.15	NO		49	
A 316X			J10-C2	97								
			SHLD A316									
A 317	1		T81-29C	19				.15	NO		49	
			J23-N5	82				.20	NO		46	
A 318	1		T81-29A	19				.15	NO		49	
			J23-N6	82				.20	NO		46	
A 319	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319B	1		T81-37B	24				.15	NO		49	
			SHLD A319					.25	NO			
A 319E			J6-A1	108				.15	NO		40	
			T81-36B	24				.15	NO		49	
A 319X			J6-A2	108								
			SHLD A319									
A 320	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 320B	1		E19	172				.25	NO			
			SHLD A320					.25	NO			
A 320L			J11-G	114				.25	NO			
			T81-37A	24				.15	NO		49	
A 320R			J11-F	114				.25	NO			
			T81-36A	24				.15	NO		49	
A 321	1		T81-36A	23				.15	NO		49	
			J24-H6	81				.20	NO		46	
A 322	1		T81-36B	23				.15	NO		49	
			J24-K4	81				.20	NO		46	
A 323	2		T81-37B	23				.15	NO		48	
			J24-R6	81				.20	NO		46	
A 324	1		T81-35D	23				.15	NO		49	
			T81-37A	23				.15	NO		49	
A 325	2		T81-37C	24				.15	NO		48	
			T83-18W	156				.25	NO		50	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326	2		TB1-37D	24				.15	NO		48	
			TB3-18X	156				.25	NO		50	
A 327	12											
A 327K			J24-R2	81				.20	NO		46	
			TB1-24C	16				.15	NO		48	
A 327L			J24-S5	81				.20	NO		46	
			TB1-23C	16				.15	NO		48	
A 327R			J24-S3	81				.20	NO		46	
			TB1-23A	16				.15	NO		48	
A 327Y			J24-S2	81				.20	NO		46	
			TB1-24A	16				.15	NO		48	
A 328	14											
A 328L			J23-S1	82				.20	NO		46	
			TB1-24B	15				.15	NO		48	
A 328R			J23-S3	82				.20	NO		46	
			TB1-23D	15				.15	NO		48	
A 328Y			J23-R1	82				.20	NO		46	
			TB1-24D	15				.15	NO		48	
A 329	12											
A 329K			TB1-24C	15				.15	NO		48	
			J22-K6	83				.20	NO		46	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329L			TB1-23C	15				.15	NO		48	
			J22-M5	83				.20	NO		46	
A 329R			TB1-23A	15				.15	NO		48	
			J22-M6	83				.20	NO		46	
A 329Y			TB1-24A	15				.15	NO		48	
			J22-L6	83				.20	NO		46	
A 330	2		J24-P6	81				.20	NO		46	
			TB1-5B	3				.15	NO		48	
A 331	2		TB1-5B	4				.15	NO		48	
			J23-P6	82				.20	NO		46	
A 332	2		TB1-5A	4				.15	NO		48	
			J2-F	87				.25	NO			
A 333	1		J21-N6	84				.20	NO		46	
			TB1-5A	3				.15	NO		49	
A 334	2		J21-N6	84				.20	NO			
			TB1-5C	3				.15	NO		48	
A 335	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 335A	1		SHLD A335					.25	NO			
			E7	181				.25	NO			
A 335L			J4-Y	88				.25	NO			
			J23-B1	82				.20	NO		46	
A 335R			J4-X	88				.25	NO			
			J23-A1	82				.20	NO		46	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 336	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 336A	1		SHLD A336					.25	NO			
			E7	181				.25	NO			
A 336L			J4-A*	88				.25	NO			
			J23-B3	82				.20	NO		46	
A 336R			J4-Z	88				.25	NO			
			J23-A3	82				.20	NO		46	
A 337	8											
A 337L			J23-F2	82				.20	NO		46	
			TB1-31B	19				.15	NO		49	
A 337R			J23-D2	82				.20	NO		46	
			TB1-31A	19				.15	NO		49	
A 338	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 338A	1		SHLD A338					.25	NO			
			E20	169				.25	NO			
A 338L			TB1-31D	20				.15	NO		49	
			J11-A*	114				.25	NO			
A 338R			TB1-31A	20				.15	NO		49	
			J11-Z	114				.25	NO			
A 339	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 339A	1		SHLD A339					.25	NO			
			E20	169				.25	NO			
A 339L			TB1-31C	20				.15	NO		49	
			J11-E	114				.25	NO			
A 339R			TB1-31B	20				.15	NO		49	
			J11-D	114				.25	NO			
A 340	2		TB1-31D	19				.15	NO		48	
			TB1-32C	22				.15	NO		48	
A 341	2		TB1-30A	19				.15	NO		48	
			TB1-32A	21				.15	NO		48	
A 342	2		J23-R6	82				.20	NO		46	
			TB1-32C	21				.15	NO		48	
A 343	2		TB1-32B	21				.15	NO		48	
			TB3-18V	156				.25	NO		50	
A 344	2		TB1-32B	22				.15	NO		48	
			TB3-18V	156				.25	NO		50	
A 345	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 345B	1		E20	169				.25	NO			
			SHLD A345					.25	NO			
A 345L			J4-V	88				.25	NO			
			J23-K1	82				.20	NO		46	
A 345R			J4-U	88				.25	NO			
			J23-H1	82				.20	NO		46	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			J4-W J23-L1	88 82				.25 NO .20 NO			46	
A 346	17				3.25 2.25	3.00 2.00				B,7 C,6A	63 64, 63	
A 346B	1		E20 SHLD A346	169				.25 NO .25 NO				
A 346L			J4-P J23-M3	88 82				.25 NO .20 NO			46	
A 346R			J4-N J23-L3	88 82				.25 NO .20 NO			46	
A 346Y			J4-R J23-N3	88 82				.25 NO .20 NO			46	
A 347	1		J4-S J4-T	88 86				.25 NO .25 NO				
A 348	2		J4-T TB3-1D	88 139				.25 NO .25 NO			50	
A 349	17				3.25 2.25	3.00 2.00				B,7 C,6A	63 64, 63	
A 349B	1		E20 SHLD A349	169				.25 NO .25 NO				
A 349L			J4-E J23-F6	88 82				.25 NO .20 NO			46	
A 349R			J4-D J23-D6	88 82				.25 NO .20 NO			46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349Y			J4-F J23-G6	88 82				.25 NO .20 NO			46	
A 350	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 350A	1		SHLD A350 E26	191				.25 NO .25 NO				
A 350W			J5-F* J22-A2	92 83				.25 NO .20 NO			46	
A 351	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 351A	1		SHLD A351 E26	191				.25 NO .25 NO				
A 351W			J5-G* J22-B1	92 83				.25 NO .20 NO			46	
A 352	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 352A	1		SHLD A352 E26	191				.25 NO .25 NO				
A 352W			J5-E* J22-A1	92 83				.25 NO .20 NO			46	
A 353	2		J22-B2 TB3-18T	83 156				.20 NO .25 NO			46 50	
A 354	1		J5-H* J22-A5	92 83				.25 NO .20 NO			46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 355	1		J5-I* J22-A6	92 83				.25 NO .20 NO			46	
A 356	1		J5-J* J22-B6	92 83				.25 NO .20 NO			46	
A 357	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 357B	1		TB1-25C SHLD A357	16				.15 NO .25 NO			49	
A 357E			J7-E1 TB1-25A	95 16				.15 NO .15 NO			40 49	
A 357X			J7-E2 SHLD A357	95								
A 358	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 358B	1		TB1-25D SHLD A358	16				.15 NO .25 NO			49	
A 358E			J7-F1 TB1-25B	95 16				.15 NO .15 NO			40 49	
A 358X			J7-F2 SHLD A358	95								
A 359	13											
A 359L			TB1-25C J22-F2	15 83				.15 NO .20 NO			49 46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 359R			TB1-25A J22-G1	15 83				.15 NO .20 NO			49 46	
A 359Y			TB1-25B J22-G2	15 83				.15 NO .20 NO			49 46	
A 360	6				3.25 2.25	3.00 2.00				A,4 B,7	55, 54, 63 63	
A 360A	1		SHLD A360 E26	191				.25 NO .25 NO				
A 360W			J5-B* J22-H2	92 83				.25 NO .20 NO			46	
A 361	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 361A	1		SHLD A361 E26	191				.25 NO .25 NO				
A 361W			J5-A* J22-N1	92 83				.25 NO .20 NO			46	
A 362	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 362A	1		SHLD A362 E26	191				.25 NO .25 NO				
A 362W			J5-D* J22-N2	92 83				.25 NO .20 NO			46	
A 363	1		J11-C J22-G3	114 83				.25 NO .20 NO			46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	1		J5-T*	92				.25	NO			
			J22-L4	83				.20	NO		46	
A 365	1		J5-R*	92				.25	NO			
			J22-M1	83				.20	NO		46	
A 366	1		J5-F	92				.25	NO			
			J22-M3	83				.20	NO		46	
A 367	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 367A	1		SHLD A367					.25	NO			
			E26	191				.25	NO			
A 367W			J5-C*	92				.25	NO			
			J22-N4	83				.20	NO		46	
A 368	1		K3-5	88A				.25	YES		44	
			K14-2	164A				.25	YES		45	
A 369	1		J11-W*	114				.25	NO			
			K14-1	164A				.25	YES		45	
A 370	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 370B	1		E22	170				.25	NO			
			SHLD A370					.25	NO			
A 370L			J12-S	113				.25	NO			
			J22-R1	83				.20	NO		46	
A 370R			J12-P	113				.25	NO			
			J22-P1	83				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 370Y			J12-R	113				.25	NO			
			J22-P2	83				.20	NO		46	
A 371	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 371A	1		SHLD A371					.25	NO			
			E22	170				.25	NO			
A 371L			J22-R1	83				.20	NO			
			K14-4	164A				.25	YES		45	
A 371R			J22-P1	83				.20	NO			
			K14-10	164A				.25	YES		45	
A 371Y			J22-P2	83				.20	NO			
			K14-7	164A				.25	YES		45	
A 372	16				3.25	3.00				B,7	62	
					3.25	3.00				A,4	60, 61, 62	
A 372B	1		E29	193				.25	NO			
			SHLD A372					.25	NO			
A 372L			J2-B	87				.25	NO			
			K14-5	164A				.25	YES		45	
A 372R			J2-A	87				.25	NO			
			K14-11	164A				.25	YES		45	
A 372Y			J2-C	87				.25	NO			
			K14-8	164A				.25	YES		45	
A 373	1		J14-CC	111				.25	NO			
			J21-L3	84				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 374	1		J13-E*	91				.25	NO			
			J13-I*	91				.25	NO			
A 375	1		J13-I*	91				.25	NO			
			J13-K*	91				.25	NO			
A 376	18											
A 376K			J13-K*	91				.25	NO			
			J21-B5	84				.20	NO		46	
A 376L			J13-H*	91				.25	NO			
			J21-A5	84				.20	NO		46	
A 376R			J13-D*	91				.25	NO			
			J21-B6	84				.20	NO		46	
A 376Y			J13-J*	91				.25	NO			
			J21-A6	84				.20	NO		46	
A 377	9											
A 377L			J12-V*	113				.25	NO			
			J21-D5	84				.20	NO		46	
A 377R			J12-U*	113				.25	NO			
			J21-D6	84				.20	NO		46	
A 378	9											
A 378L			J12-X*	113				.25	NO			
			J21-G6	84				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 378R			J12-W*	113				.25	NO			
			J21-F6	84				.20	NO		46	
A 379	9											
A 379L			J12-Z*	113				.25	NO			
			J21-H5	84				.20	NO		46	
A 379R			J12-Y*	113				.25	NO			
			J21-H6	84				.20	NO		46	
A 380	18											
A 380K			J4-F*	88				.25	NO			
			J21-G1	84				.20	NO		46	
A 380L			J4-H*	88				.25	NO			
			J21-F1	84				.20	NO		46	
A 380R			J4-J*	88				.25	NO			
			J21-G2	84				.20	NO		46	
A 380Y			J4-G*	88				.25	NO			
			J21-H1	84				.20	NO		46	
A 381	2		J21-G2	84				.20	NO			
			TB1-6A	3				.15	NO		48	
A 382	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 382B	1		TB1-6A	4				.15	NO		49	
			SHLD A382					.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 382E			J7-D1	95				.15	NO		40	
			TB1-7A	4				.15	NO		49	
A 382X			J7-D2	95								
			SHLD A382									
A 383	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 383B	1		TB1-6D	4				.15	NO		49	
			SHLD A383					.25	NO			
A 383E			J7-C1	95				.15	NO		40	
			TB1-7B	4				.15	NO		49	
A 383X			J7-C2	95								
			SHLD A383									
A 384	13											
A 384L			TB1-6B	3				.15	NO		49	
			J21-M5	84				.20	NO		46	
A 384R			TB1-7A	3				.15	NO		49	
			J21-L6	84				.20	NO		46	
A 384Y			TB1-7B	3				.15	NO		49	
			J21-M6	84				.20	NO		46	
A 385	2		TB1-6B	4				.15	NO		48	
			TB3-18R	158				.25	NO		50	
A 386	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 386A	1		SHLD A386					.25	NO			
			E26	191				.25	NO			
A 386L			J31-Q*	89				.25	NO			
			TB2-26A	54				.15	NO		49	
A 386R			J31-P*	89				.25	NO			
			TB2-24A	54				.15	NO		49	
A 387	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 387B	1		E14	178				.25	NO			
			SHLD A387					.25	NO			
A 387L			J16-S	112				.25	NO			
			TB2-26B	54				.15	NO		49	
A 387R			J16-R	112				.25	NO			
			TB2-24B	54				.15	NO		49	
A 388	8											
A 388L			TB2-26A	53				.15	NO		49	
			J28-D7	77				.25	YES		47	
A 388R			TB2-24A	53				.15	NO		49	
			J28-C7	77				.25	YES		47	
A 389	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 389A	1		SHLD A389					.25	NO			
			E25	188				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 389L			J31-Z*	89				.25	NO			
			TB2-26C	54				.15	NO		49	
A 389R			J31-Y*	89				.25	NO			
			TB2-24C	54				.15	NO		49	
A 390	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 390B	1		E14	178				.25	NO			
			SHLD A390					.25	NO			
A 390L			J16-U	112				.25	NO			
			TB2-25B	54				.15	NO		49	
A 390R			J16-T	112				.25	NO			
			TB2-24D	54				.15	NO		49	
A 391	8											
A 391L			TB2-26B	53				.15	NO		49	
			J28-D8	77				.25	YES		47	
A 391R			TB2-24C	53				.15	NO		49	
			J28-C8	77				.25	YES		47	
A 392	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 392A	1		SHLD A392					.25	NO			
			E25	188				.25	NO			
A 392L			J31-BB	89				.25	NO			
			TB2-25C	54				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 392R			J31-AA	89				.25	NO			
			TB2-27A	54				.15	NO		49	
A 393	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 393B	1		E14	178				.25	NO			
			SHLD A393					.25	NO			
A 393L			J16-M	112				.25	NO			
			TB2-25D	54				.15	NO		49	
A 393R			J16-L	112				.25	NO			
			TB2-27B	54				.15	NO		49	
A 394	8											
A 394L			TB2-26C	53				.15	NO		49	
			J28-D9	77				.25	YES		47	
A 394R			TB2-27A	53				.15	NO		49	
			J28-C9	77				.25	YES		47	
A 395	2		TB2-26D	54				.15	NO		48	
			TB2-25A	54				.15	NO		48	
A 396	2		TB2-25D	53				.15	NO		48	
			TB3-17B	124				.25	NO		50	
A 397	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 397B	1		TB2-28C	56				.15	NO		49	
			SHLD A397					.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397E			J6-E1	108				.15	NC		40	
			TB2-28A	56				.15	NO		49	
A 397X			J6-E2	108								
			SHLD A397									
A 398	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 398B	1		TB2-28D	56				.15	NC		49	
			SHLD A398					.25	NO			
A 398E			J6-F1	108				.15	NO		40	
			TB2-28B	56				.15	NO		49	
A 398X			J6-F2	108								
			SHLD A398									
A 399	13											
A 399L			TB2-28C	55				.15	NO		49	
			J28-H5	77				.20	NO		46	
A 399R			TB2-28A	55				.15	NC		49	
			J28-G5	77				.20	NO		46	
A 399Y			TB2-28B	55				.15	NO		49	
			J28-K5	77				.20	NO		46	
A 400	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 400B	1		TB2-29C	56				.15	NO		49	
			SHLD A400					.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 400E			J6-C1	108				.15	NO		40	
			TB2-29A	56				.15	NO		49	
A 400X			J6-C2	108								
			SHLD A400									
A 401	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 401B	1		TB2-29D	56				.15	NO		49	
			SHLD A401					.25	NO			
A 401E			J6-D1	108				.15	NO		40	
			TB2-29B	56				.15	NO		49	
A 401X			J6-D2	108								
			SHLD A401									
A 402	13											
A 402L			TB2-29C	55				.15	NO		49	
			J28-H3	77				.20	NO		46	
A 402R			TB2-29A	55				.15	NO		49	
			J28-G3	77				.20	NO		46	
A 402Y			TB2-29B	55				.15	NO		49	
			J28-K3	77				.20	NO		46	
A 403	1		J28-L1	77				.20	NO		46	
			J28-L2	77				.20	NO		46	
A 404	1		J28-L2	77				.20	NO			
			J28-L3	77				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J28-L3	77				.20	NO			
			J28-L4	77				.20	NO		46	
A 406	1		J28-L4	77				.20	NO			
			J28-L5	77				.20	NO		46	
A 407	1		J28-L5	77				.20	NO			
			J28-L6	77				.20	NO		46	
A 408	2		TB2-19C	49				.15	NO		48	
			TB2-30A	58				.15	NO		48	
A 409	1		TB2-30A	57				.15	NO		49	
			J28-L6	77				.20	NO			
A 410	2		TB2-30B	57				.15	NO		48	
			TB3-17C	123				.25	NO		50	
A 411	2		TB2-16B	47				.15	NO		48	
			TB2-31A	56				.15	NO		48	
A 412	2		TB2-22B	51				.15	NO		48	
			TB2-31C	58				.15	NO		48	
A 413	2		TB2-23B	51				.15	NO		48	
			TB2-30D	57				.15	NO		48	
A 414	1		TB2-30C	57				.15	NO		49	
			J28-R4	77				.20	NO		46	
A 415	1		TB2-31A	57				.15	NO		49	
			J28-R5	77				.20	NO		46	
A 416	1		TB2-31C	57				.15	NO		49	
			J28-R6	77				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 417	2		J28-S3	77				.20	NO		46	
			TB3-17D	123				.25	NO		50	
A 418	2		TB2-31D	57				.15	NO		48	
			TB3-17F	123				.25	NO		50	
A 419	2		TB2-30B	58				.15	NO		48	
			TB3-17C	123				.25	NO		50	
A 420	2		TB2-30C	58				.15	NO		48	
			TB3-17G	123				.25	NO		50	
A 421	2		TB2-31B	58				.15	NO		48	
			TB3-17H	121				.25	NO		50	
A 422	2		TB2-31D	58				.15	NO		48	
			TB3-17F	123				.25	NO		50	
A 423	2		J28-T2	77				.20	NO		46	
			TB2-46A	67				.15	NO		48	
A 424	2		J29-T5	76				.20	NO		46	
			TB2-46B	67				.15	NO		48	
A 425	2		J27-T6	78				.20	NO		46	
			TB2-46A	68				.15	NO		48	
A 426	2		TB2-46B	68				.15	NO		48	
			J30-N6	75				.20	NO		46	
A 427	2		J16-AA	112				.25	NO			
			TB2-47D	68				.15	NO		48	
A 428	2		TB2-47C	67				.15	NO		48	
			J26-S6	79				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	2		J15-H	110				.25	YES		43	
			J30-H2	75				.20	NO		46	
A 502	1		J15-H	110				.25	YES			
			J30-H2	75				.20	NO			
A 503	1		J15-H	110				.25	YES			
			J14-V*	111				.25	NO			
A 504	2		J15-P	110				.25	YES		43	
			J30-H3	75				.20	NO		46	
A 505	1		J15-P	110				.25	YES			
			J30-H3	75				.20	NO			
A 506	1		J15-P	110				.25	YES			
			J14-W*	111				.25	NO			
A 507	2		J15-K	110				.25	YES		43	
			TB2-49A	70				.15	NO		48	
A 508	1		J15-K	110				.25	YES			
			TB2-49B	70				.15	NO		49	
A 509	1		J15-K	110				.25	YES			
			J14-W	111				.25	NO			
A 510	2		TB2-49A	69				.15	NO		48	
			J30-T3	75				.20	NO		46	
A 511	2		TB2-49B	69				.15	NO		48	
			J30-S3	75				.20	NO		46	
A 512	2		J15-L	110				.25	YES		43	
			TB2-49C	70				.15	NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		J15-L	110				.25	YES			
			TB2-49D	70				.15	NO		49	
A 514	1		J15-L	110				.25	YES			
			J14-X	111				.25	NO			
A 515	2		TB2-49C	69				.15	NO		48	
			J30-T4	75				.20	NO		46	
A 516	2		TB2-49D	69				.15	NO		48	
			J30-S4	75				.20	NO		46	
A 517	2		J15-A	110				.25	YES		43	
			TB2-50A	70				.15	NO		48	
A 518	1		J15-A	110				.25	YES			
			TB2-50B	70				.15	NO		49	
A 519	2		J15-B	110				.25	YES		43	
			TB2-50C	70				.15	NO		48	
A 520	1		J15-B	110				.25	YES			
			TB2-50D	70				.15	NO		49	
A 521	1		J15-B	110				.25	YES		43	
			J14-Y	111				.25	NO			
A 522	2		TB2-50A	69				.15	NO		48	
			J30-P1	75				.20	NO		46	
A 523	2		TB2-50B	69				.15	NO		48	
			J30-R1	75				.20	NO		46	
A 524	2		TB2-50C	69				.15	NO		48	
			J30-S1	75				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	2		TB2-50D	69				.15	NO		48	
			J30-T1	75				.20	NO		46	
A 526	2		J15-C	110				.25	YES		43	
			TB2-51A	72				.15	NO		48	
A 527	1		J15-C	110				.25	YES			
			TB2-51B	72				.15	NO		49	
A 528	2		J15-D	110				.25	YES		43	
			TB2-51C	72				.15	NO		48	
A 529	1		J15-D	110				.25	YES			
			TB2-51D	72				.15	NO		49	
A 530	1		J15-D	110				.25	YES			
			J14-Z	111				.25	NO			
A 531	2		TB2-51A	71				.15	NO		48	
			J30-P2	75				.20	NO		46	
A 532	2		TB2-51B	71				.15	NO		48	
			J30-R2	75				.20	NO		46	
A 533	2		TB2-51C	71				.15	NO		48	
			J30-S2	75				.20	NO		46	
A 534	2		TB2-51D	71				.15	NO		48	
			J30-T2	75				.20	NO		46	
A 535	4		J15-E	110				.25	YES		43	
			TB3-18J	162				.25	NO		50	
A 536	4		J15-F	110				.25	YES		43	
			TB3-18F	162				.25	NO		50	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		J14-U*	111				.25	NO			
			TB3-18G	162				.25	NO		50	
A 538	2		J2-E	87				.25	NO			
			TB3-18C	164				.25	NO		50	
A 539	2		J5-N	92				.25	NO			
			TB3-18D	164				.25	NO		50	
A 540	2		J5-P	92				.25	NO			
			TB3-18A	164				.25	NO		50	
A 541	2		J5-R	92				.25	NO			
			TB3-18B	164				.25	NO		50	
A 542	2		J30-K1	75				.20	NO		46	
			TB3-18X	156				.25	NO		50	
A 543	2		J30-K2	75				.20	NO		46	
			TB3-18S	158				.25	NO		50	
A 544	2		J30-H1	75				.20	NO		46	
			TB3-18Q	158				.25	NO		50	
A 545	4		E219	88B				.25	NO		51	
			TB3-18N	160				.25	NO		50	
A 546	2		J20-A	93				.25	YES		43	
			TB2-52A	72				.15	NO		48	
A 547	1		J20-A	93				.25	YES			
			TB2-52B	72				.15	NO		49	
A 548	2		J20-B	93				.25	YES		43	
			TB2-52C	72				.15	NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 549	1		J20-B	93				.25	YES			
			TB2-52D	72				.15	NO		49	
A 550	1		J20-B	93				.25	YES			
			J20-H	93				.25	YES		43	
A 551	2		TB2-52A	71				.15	NO		48	
			J30-R5	75				.20	NO		46	
A 552	2		TB2-52B	71				.15	NO		48	
			J30-S5	75				.20	NO		46	
A 553	2		TB2-52C	71				.15	NO		48	
			J30-T5	75				.20	NO		46	
A 554	2		J20-C	93				.25	YES		43	
			TB2-53A	72				.15	NO		48	
A 555	1		J20-C	93				.25	YES			
			TB2-53B	72				.15	NO		49	
A 556	2		J20-D	93				.25	YES		43	
			TB2-53C	72				.15	NO		48	
A 557	1		J20-D	93				.25	YES			
			TB2-53D	72				.15	NO		49	
A 558	1		J20-D	93				.25	YES			
			J20-F	93				.25	YES		43	
A 559	2		TB2-53A	71				.15	NO		48	
			J30-R6	75				.20	NO		46	
A 560	2		TB2-53B	71				.15	NO		48	
			J30-S6	75				.20	NO		46	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 561	2		TB2-53C	71				.15	NO		48	
			J30-T6	75				.20	NO		46	
A 562	2		J17-V*	109				.25	NO			
			TB3-17D	123				.25	NO		50	
A 563	4		J20-E	93				.25	YES		43	
			TB3-17G	123				.25	NO		50	
A 564	4		J20-J	93				.25	YES		43	
			TB3-17W	115				.25	NO		50	
A 565	2		J31-DD	89				.25	NO			
			TB3-17J	121				.25	NO		50	
A 566	2		J32-D*	90				.25	NO			
			TB3-17X	115				.25	NO		50	
A 567	2		J16-BB	112				.25	NO			
			TB3-17L	121				.25	NO		50	
A 568	2		J31-EE	89				.25	NO			
			TB3-17Y	115				.25	NO		50	
A 569	2		J32-A*	90				.25	NO			
			TB3-17N	119				.25	NO		50	
A 570	2		J30-P3	75				.20	NO		46	
			TB3-17Q	119				.25	NO		50	
A 571	2		J30-P4	75				.20	NO		46	
			TB3-17Z	115				.25	NO		50	
A 572	4		E219	88B				.25	NO		51	
			TB3-17V	117				.25	NO		50	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 573	1		J26-N4	79				.20	NO			
			TB3-2S	140				.25	NO		50	
A 574	2		J2-G	87				.25	NO			
			TB3-2P	142				.25	NO		50	
A 575	4		E219	88B				.25	NO		71	
			TB3-2M	142				.25	NO		50	
A 576	4		E219	88B				.25	NO		51	
			TB3-1V	133				.25	NO		50	
A 577	2		J18-B	96				.25	NO			
			TB3-1G	137				.25	NO		50	
A 578	2		J19-B	106				.25	NO			
			TB3-1C	140A				.25	NO		50	
A 579	2		J5-B	92				.25	NO			
			TB3-1S	133				.25	NO		50	
A 580	4		J15-G	110				.25	YES		43	
			TB3-1T	133				.25	NO		50	
A 581	4		J20-G	93				.25	YES		43	
			TB3-1K	137				.25	NO		50	
A 582	3		J20-K	93				.25	YES		66	
			TB3-1M	135				.25	NO		50	
A 583	2		J31-B	69				.25	NO			
			TB3-1P	135				.25	NO		50	
A 584	2		J32-B	90				.25	NO			
			TB3-1R	133				.25	NO		50	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 585	1		J16-B	112				.25	NO			
			TB3-1A	139				.25	NO		50	
A 586	2		J14-X*	111				.25	NO			
			TB3-7A	150				.15	NO		48	
A 587	2		E219	88B				.25	NO		51	
			TB3-7B	150				.15	NO		48	
A 588	2		E219	88B				.25	NO		51	
			TB3-7C	150				.15	NO		48	
A 589	2		TB2-47B	68				.15	NO		48	
			J22-S6	83				.20	NO		46	
A 590	1		TB2-47A	68				.15	NO		49	
			J17-CC	109				.25	NO			
A 591	2		TB2-47A	67				.15	NO		48	
			J30-P5	75				.20	NO		46	
A 592	2		J30-M5	75				.20	NO		46	
			TB2-54B	73				.15	NO		48	
A 593	2		J30-N5	75				.20	NO		46	
			TB2-54C	73				.15	NO		48	
A 594	2		TB2-54A	73				.15	NO		48	
			J22-L1	83				.20	NO		46	
A 595	2		TB2-54B	74				.15	NO		48	
			J27-R5	78				.20	NO		46	
A 596	2		TB2-54C	74				.15	NO		48	
			J12-D*	113				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 629X			J8-D2 SHLD A629	94								
A 630	1		TB5-3 E10	199 182				.25 .25	YES NO			
A 631	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 631A	1		SHLD A631 E9	168				.25 .25	NO NO			
A 631L			J22-F5 TB5-7	83 202				.20 .25	NO YES		46	
A 631R			J22-D5 TB5-8	83 203				.20 .25	NO YES		46	
A 632	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 632B	1		TB5-9 SHLD A632	204				.25 .25	YES NO			
A 632E			J8-C1 TB5-11	94 206				.15 .25	NO YES		40	
A 632X			J8-C2 SHLD A632	94								
A 633	1		TB5-9 E10	204 182				.25 .25	YES NO			
A 634	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 634A	1		SHLD A634 J42	98				.25 .25	NO YES			
A 634B	1		TB5-9 SHLD A634	204				.25 .25	YES NO			
A 634E			J41 TB5-10	98 206				.25 .25	YES YES			
A 635	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 635A	1		SHLD A635 E9	168				.25 .25	NO NO			
A 635L			J22-F6 TB5-13	83 216				.20 .25	NO YES		46	
A 635R			J22-D6 TB5-14	83 215				.20 .25	NO YES		46	
A 636	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 636B	1		TB5-15 SHLD A636	214				.25 .25	YES NO			
A 636E			J8-B1 TB5-17	94 212				.15 .25	NO YES		40	
A 636X			J8-B2 SHLD A636	94								
A 637	1		TB5-15 E10	214 182				.25 .25	YES NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 638	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	
A 638A	1		SHLD A638 J44	98				.25 .25	NO YES			
A 638B	1		TB5-15 SHLD A638	214				.25 .25	YES NO			
A 638E			J43 TB5-16	98 213				.25 .25	YES YES			
A 639	1		J21-N3 TB1-26A	84 17				.20 .15	NO NO		46 49	
A 640	2		TB1-26A J22-P4	18 83				.15 .20	NO NO		48 46	
A 641	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 641B	1		TB1-28D SHLD A641	18				.15 .25	NO NO		49	
A 641E			J10-D1 TB1-26B	97 18				.15 .15	NO NO		40 49	
A 641X			J10-D2 SHLD A641	97								
A 642	5				2.25 1.50	2.00 1.25				A,4 B,7	53, 52, 63 63	
A 642A	1		SHLD A642 E21	167				.25 .25	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 642W			TB1-26B J27-R3	17 78				.15 .20	NO NO		49 46	
A 643	2		TB1-28B J22-R2	17 83				.15 .20	NO NO		48 46	
A 644	2		TB1-28C J22-R3	17 83				.15 .20	NO NO		48 46	
A 645	2		E9 TB1-28A	168 17				.25 .15	NO NO		48	
A 646	2		E10 TB1-28A	182 18				.25 .15	NO NO		48	
A 647	2		TB1-14B TB1-28B	10 18				.15 .15	NO NO		48 48	
A 648	2		TB1-28C TB3-18L	18 160				.15 .25	NO NO		48 50	
A 649	2		TB1-28D TB3-18J	17 162				.15 .25	NO NO		48 50	
A 650	1		J22-R3 J22-R4	83 83				.20 .20	NO NO		46	
A 651	2		TB1-25D TB1-27A	15 17				.15 .15	NO NO		48 48	
A 652	2		TB1-18C TB1-27D	11 17				.15 .15	NO NO		48 48	
A 653	2		TB1-27B J22-R4	17 83				.15 .20	NO NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 763L			TB1-21A	13				.15	NO		49	
			J27-N3	78				.20	NO		46	
A 763R			TB1-20A	13				.15	NO		49	
			J27-P3	78				.20	NO		46	
A 764	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 764A	1		SHLD A764					.25	NO			
			E21	167				.25	NO			
A 764L			TB1-21B	14				.15	NO		49	
			J18-L	96				.25	NO			
A 764R			TB1-20B	14				.15	NO		49	
			J18-K	96				.25	NO			
A 765	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 765A	1		SHLD A765					.25	NO			
			E21	167				.25	NO			
A 765L			TB1-21C	14				.15	NO		49	
			J19-L	106				.25	NO			
A 765R			TB1-20C	14				.15	NO		49	
			J19-K	106				.25	NO			
A 766	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 766A	1		SHLD A766					.25	NO			
			E21	167				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 766L			TB1-21D	14				.15	NO		49	
			J16-JJ	112				.25	NO			
A 766R			TB1-20D	14				.15	NO		49	
			J16-HH	112				.25	NO			
A 767	14											
A 767L			J27-L5	78				.20	NO		46	
			TB2-9C	44				.15	NO		48	
A 767R			J27-T5	78				.20	NO		46	
			TB2-9A	44				.15	NO		48	
A 767Y			J27-L4	78				.20	NO		46	
			TB2-10A	44				.15	NO		48	
A 768	14											
A 768L			TB2-9D	43				.15	NO		48	
			J23-S2	82				.20	NO		46	
A 768R			TB2-9B	43				.15	NO		48	
			J23-S4	82				.20	NO		46	
A 768Y			TB2-10B	43				.15	NO		48	
			J23-R2	82				.20	NO		46	
A 769	14											
A 769L			TB2-9C	43				.15	NO		48	
			J24-S1	81				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 769R			TB2-9A	43				.15	NO		48	
			J24-S4	81				.20	NO		46	
A 769Y			TB2-10A	43				.15	NO		48	
			J24-R1	81				.20	NO		46	
A 770	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 770A	1		SHLD A770					.25	NO			
			E25	168				.25	NO			
A 770L			J32-P	90				.25	NO			
			J28-B1	77				.25	YES		47	
A 770R			J32-R	90				.25	NO			
			J28-A1	77				.25	YES		47	
A 771	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 771A	1		SHLD A771					.25	NO			
			E13	179				.25	NO			
A 771L			J28-B1	77				.25	YES			
			J18-E•	96				.25	NO			
A 771R			J28-A1	77				.25	YES			
			J18-F•	96				.25	NO			
A 772	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 772A	1		SHLD A772					.25	NO			
			J32-Z•	90				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 772B	1		TB2-14A	46				.15	NO		49	
			SHLD A772					.25	NO			
A 772L			J32-L	90				.25	NO			
			TB2-15A	46				.15	NO		49	
A 772R			J32-K	90				.25	NO			
			TB2-14B	46				.15	NO		49	
A 773	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 773A	1		SHLD A773					.25	NO			
			J18-AA	96				.25	NO			
A 773B	1		TB2-14C	46				.15	NO		49	
			SHLD A773					.25	NO			
A 773L			J18-I•	96				.25	NO			
			TB2-15B	46				.15	NO		49	
A 773R			J18-J•	96				.25	NO			
			TB2-14D	46				.15	NO		49	
A 774	8											
A 774L			TB2-15A	45				.15	NO		49	
			J28-A3	77				.25	YES		47	
A 774R			TB2-14B	45				.15	NO		49	
			J28-A2	77				.25	YES		47	
A 775	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	

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SCALE-NONE	REV LTR E	SHEET 158 OF 173

MIL 8064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 807L			J28-F5	77				.25	YES		47	
			J31-H	89				.25	NO			
A 807R			J28-F4	77				.25	YES		47	
			J31-G	89				.25	NO			
A 808	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 808A	1		SHLD A808					.25	NO			
			E25	188				.25	NO			
A 808L			J32-J*	90				.25	NO			
			J28-F1	77				.25	YES		47	
A 808R			J32-I*	90				.25	NO			
			J28-D1	77				.25	YES		47	
A 809	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 809A	1		SHLD A809					.25	NO			
			E13	179				.25	NO			
A 809L			J28-F1	77				.25	YES			
			J19-S	106				.25	NO			
A 809R			J28-D1	77				.25	YES			
			J19-T	106				.25	NO			
A 810	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 810A	1		SHLD A810					.25	NO			
			E25	188				.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 167 OF 173

MIL 3064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 810L			J32-M*	90				.25	NO			
			J28-F3	77				.25	YES		47	
A 810R			J32-K*	90				.25	NO			
			J28-F2	77				.25	YES		47	
A 811	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 811A	1		SHLD A811					.25	NO			
			E13	179				.25	NO			
A 811L			J28-F3	77				.25	YES			
			J19-P	106				.25	NO			
A 811R			J28-F2	77				.25	YES			
			J19-R	106				.25	NO			
A 812	8											
A 812L			J17-R	109				.25	NO			
			J28-P3	77				.20	NO		46	
A 812R			J17-S	109				.25	NO			
			J28-P1	77				.20	NO		46	
A 813	1		J17-R*	109				.25	NO			
			J28-P2	77				.20	NO		46	
A 814	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 814A	1		SHLD A814					.25	NO			
			J46	102				.25	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 168 OF 173

MIL 3064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 814B	1		T85-3	199				.25	YES			
			SHLD A814					.25	NO			
A 814E			J45	102				.25	YES			
			T85-4	200				.25	YES			
A 815	2		TB1-6C	4				.15	NO		48	
			TB3-18F	162				.25	NO		50	
A 816	2		J3-J*	85				.25	NO			
			J12-N*	113				.25	NO			
A 817	2		E31	183				.25	NO			
			J26-B7	79				.25	YES		47	
A 818	1		J12-K	113				.25	NO			
			TB2-42B	66				.15	NO		49	
A 819	2		TB2-16C	49				.15	NO		48	
			TB2-17D	47				.15	NO		48	
A 820	1		J17-T	109				.25	NO			
			J17-U	109				.25	NO			
A 821	14											
A 821L			K14-3	164A				.25	YES		45	
			J14-T	111				.25	NO			
A 821R			K14-9	164A				.25	YES		45	
			J14-V	111				.25	NO			
A 821Y			K14-6	164A				.25	YES		45	
			J14-U	111				.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 169 OF 173

MIL 3064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 822	10				3.25	3.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 822A	1		SHLD A822					.25	NO			
			J32-Z	90				.25	NO			
A 822L			J32-Y	90				.25	NO			
			J16-Z	112				.25	NO			
A 822R			J32-X	90				.25	NO			
			J16-Y	112				.25	NO			
A 823	1		J32-Z	90				.25	NO			
			TB3-17Y	115				.25	NO		50	
A 824	2		E32	91D				.25	NO			
			J5-U	92				.25	NO			
A 825	2		E33	110A				.25	NO			
			J5-V	92				.25	NO			
A 826	2		E34	91C				.25	NO			
			J5-W	92				.25	NO			
A 827	2		E35	110B				.25	NO			
			J5-X	92				.25	NO			
A 828	2		E36	91B				.25	NO			
			J5-Y	92				.25	NO			
A 829	2		E37	91A				.25	NO			
			J5-Z	92				.25	NO			
A 830	14											

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 170 OF 173

MIL 3064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			J4-W	88				.25	NO			
			J23-L1	82				.20	NO		46	
A 346	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 346B	1		E20	169				.25	NO			
			SHLD A346					.25	NO			
A 346L			J4-P	88				.25	NO			
			J23-M3	82				.20	NO		46	
A 346R			J4-N	88				.25	NO			
			J23-L3	82				.20	NO		46	
A 346Y			J4-R	88				.25	NO			
			J23-N3	82				.20	NO		46	
A 347	1		J4-S	88				.25	NO			
			J4-T	88				.25	NO			
A 348	2		J4-T	88				.25	NO			
			TB3-1D	139				.25	NO		50	
A 349	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 349B	1		E20	169				.25	NO			
			SHLD A349					.25	NO			
A 349L			J4-E	88				.25	NO			
			J23-F6	82				.20	NO		46	
A 349R			J4-D	88				.25	NO			
			J23-D6	82				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 95 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349Y			J4-F	88				.25	NO			
			J23-G6	82				.20	NO		46	
A 350	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 350A	1		SHLD A350					.25	NO			
			E26	191				.25	NO			
A 350W			J5-F*	92				.25	NO			
			J22-A2	83				.20	NO		46	
A 351	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 351A	1		SHLD A351					.25	NO			
			E26	191				.25	NO			
A 351W			J5-G*	92				.25	NO			
			J22-B1	83				.20	NO		46	
A 352	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 352A	1		SHLD A352					.25	NO			
			E26	191				.25	NO			
A 352W			J5-E*	92				.25	NO			
			J22-A1	83				.20	NO		46	
A 353	2		J22-B2	83				.20	NO		46	
			TB3-18T	156				.25	NO		50	
A 354	1		S1-5	88A				.25	YES		88	
			J22-A5	83				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 96 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 355	1		S2-5	88A				.25	YES		88	
			J22-A6	83				.20	NO		46	
A 356	1		S3-5	88A				.25	YES		88	
			J22-B6	83				.20	NO		46	
A 357	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 357B	1		TB1-25C	16				.15	NO		49	
			SHLD A357					.25	NO			
A 357E			J7-E1	95				.15	NO		40	
			TB1-25A	16				.15	NO		49	
A 357X			J7-E2	95								
			SHLD A357									
A 358	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 358B	1		TB1-25D	16				.15	NO		49	
			SHLD A358					.25	NO			
A 358E			J7-F1	95				.15	NO		40	
			TB1-25B	16				.15	NO		49	
A 358X			J7-F2	95								
			SHLD A358									
A 359	13											
A 359L			TB1-25C	15				.15	NO		49	
			J22-F2	83				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 97 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 359R			TB1-25A	15				.15	NO		49	
			J22-G1	83				.20	NO		46	
A 359Y			TB1-25B	15				.15	NO		49	
			J22-G2	83				.20	NO		46	
A 360	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 360A	1		SHLD A360					.25	NO			
			E26	191				.25	NO			
A 360W			J5-B*	92				.25	NO			
			J22-H2	83				.20	NO		46	
A 361	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 361A	1		SHLD A361					.25	NO			
			E26	191				.25	NO			
A 361W			J5-A*	92				.25	NO			
			J22-N1	83				.20	NO		46	
A 362	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 362A	1		SHLD A362					.25	NO			
			E26	191				.25	NO			
A 362W			J5-D*	92				.25	NO			
			J22-N2	83				.20	NO		46	
A 363	1		J11-C	114				.25	NO			
			J22-G3	83				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 98 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 763L			TB1-21A	13				.15	NO		49	
			J27-N3	78				.20	NO		46	
A 763R			TB1-20A	13				.15	NO		49	
			J27-P3	78				.20	NO		46	
A 764	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 764A	1		SHLD A764					.25	NO			
			E21	167				.25	NO			
A 764L			TB1-21B	14				.15	NO		49	
			J18-L	96				.25	NO			
A 764R			TB1-20B	14				.15	NO		49	
			J18-K	96				.25	NO			
A 765	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 765A	1		SHLD A765					.25	NO			
			E21	167				.25	NO			
A 765L			TB1-21C	14				.15	NO		49	
			J19-L	106				.25	NO			
A 765R			TB1-20C	14				.15	NO		49	
			J19-K	106				.25	NO			
A 766	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 766A	1		SHLD A766					.25	NO			
			E21	167				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 155 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 766L			TB1-21D	14				.15	NO		49	
			J16-JJ	112				.25	NO			
A 766R			TB1-20D	14				.15	NO		49	
			J16-HH	112				.25	NO			
A 767	14											
A 767L			J27-L5	78				.20	NO		46	
			TB2-9C	44				.15	NO		48	
A 767R			J27-T5	78				.20	NO		46	
			TB2-9A	44				.15	NO		48	
A 767Y			J27-L4	78				.20	NO		46	
			TB2-10A	44				.15	NO		48	
A 768	14											
A 768L			TB2-9D	43				.15	NO		48	
			J23-S2	82				.20	NO		46	
A 768R			TB2-9B	43				.15	NO		48	
			J23-S4	82				.20	NO		46	
A 768Y			TB2-10B	43				.15	NO		48	
			J23-R2	82				.20	NO		46	
A 769	14											
A 769L			TB2-9C	43				.15	NO		48	
			J24-S1	81				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 156 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 769R			TB2-9A	43				.15	NO		48	
			J24-S4	81				.20	NO		46	
A 769Y			TB2-10A	43				.15	NO		48	
			J24-R1	81				.20	NO		46	
A 770	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 770A	1		SHLD A770					.25	NO			
			E25	188				.25	NO			
A 770L			J32-P	90				.25	NO			
			J28-B1	77				.25	YES		47	
A 770R			J32-R	90				.25	NO			
			J28-A1	77				.25	YES		47	
A 771	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 771A	1		SHLD A771					.25	NO			
			E13	179				.25	NO			
A 771L			J28-B1	77				.25	YES			
			J18-E*	96				.25	NO			
A 771R			J28-A1	77				.25	YES			
			J18-F*	96				.25	NO			
A 772	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 772A	1		SHLD A772					.25	NO			
			J32-Z*	90				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 157 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 772B	1		TB2-14A	46				.15	NO		49	
			SHLD A772					.25	NO			
A 772L			J32-L	90				.25	NO			
			TB2-15A	46				.15	NO		49	
A 772R			J32-K	90				.25	NO			
			TB2-14B	46				.15	NO		49	
A 773	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 773A	1		SHLD A773					.25	NO			
			J18-AA	96				.25	NO			
A 773B	1		TB2-14C	46				.15	NO		49	
			SHLD A773					.25	NO			
A 773L			J18-I*	96				.25	NO			
			TB2-15B	46				.15	NO		49	
A 773R			J18-J*	96				.25	NO			
			TB2-14D	46				.15	NO		49	
A 774	8											
A 774L			TB2-15A	45				.15	NO		49	
			J28-A3	77				.25	YES		47	
A 774R			TB2-14B	45				.15	NO		49	
			J28-A2	77				.25	YES		47	
A 775	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 158 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 830L			T82-9D	44			.15		NO		48	
			J13-F	91			.25		NO			
A 830R			T82-9B	44			.15		NO		48	
			J13-D	91			.25		NO			
A 830Y			T82-10B	44			.15		NO		46	
			J13-E	91			.25		NO			
A 831	2		J19-C*	106			.25		NO			
			T82-38B	62			.15		NO		48	
A 832	2		T82-38D	61			.15		NO			
			J29-N1	76			.20		NO		46	
A 833	2		J18-C*	96			.25		NO			
			T82-39B	64			.15		NO		48	
A 834	2		T82-39D	63			.15		NO			
			J29-N2	76			.20		NO		46	
A 835	1		S1-3	88A				.25	YES		88	
			S1-5	88A				.25	YES		88	
A 836	1		S2-3	88A				.25	YES		88	
			S2-5	88A				.25	YES		88	
A 837	1		S3-3	88A				.25	YES		88	
			S3-5	88A				.25	YES		88	
A 838	1		S1-1	88A				.25	YES		88	
			J11-Z	114				.25	NO			
A 839	1		S2-1	88A				.25	YES		88	
			J11-U	114				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE NONE	REV LTR G	SHEET 171 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 840	1		S3-1	88A				.25	YES		88	
			J11-F	114				.25	NO			
A 841	1		S1-6	88A				.25	YES		88	
			J5-H*	92				.25	NO			
A 842	1		S2-6	88A				.25	YES		88	
			J5-I*	92				.25	NO			
A 843	1		S3-6	88A				.25	YES		88	
			J5-J*	92				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 172 OF 174

MIL 2084 9-85

REVISIONS TLR-7411

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 & 2 FOR REVISION RECORD

SECTION D-D
TYP BREAKOUTS FOR TERM NOS 115 THRU 164, END OF ACCESSORIES ARE TRUE POSITION +.25, -.12 INCH RELATIVE TO DATUM -Z-.

SECTION C-C
TYPICAL

A (SHEET 172, ZONE B-7)

1902195-011	1902195-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — ± — — — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS	
NEXT ASSY	USED ON	MATERIAL	ACSP PN	WIRING HARNESS A	
APPLICATION		CONTRACT NAS 9-497	DRAWN S Capra DATE 5/14/63		
			CHECKED [illegible] DATE 5/14/63		
			APPROVAL [illegible] DATE 5/14/63		
			APPROVAL [illegible] DATE 5/14/63		
			NASA APPROVAL [illegible] DATE 5/14/63	CODE IDENT NO	SIZE E 1902255
			MIT APPROVAL [illegible] DATE 5/14/63	SCALE 1/1	SHEET 173 OF 174

1902255 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 99	1		J3-AA					.20	NO			
			P2-26					.20	NO		9	
A 100	1		J3-Z*					.20	NO			
			TB1-42					.30	YES			
A 101	1		J3-Y*					.20	NO			
			XF3-1					.30	YES			
A 102	1		J3-X*					.20	NO			
			P2-36					.20	NO		9	
A 103	1		J3-W*					.20	NO			
			P2-5					.20	NO		9	
A 104	1		J3-V*					.20	NO			
			P2-22					.20	NO		9	
A 105	1		J3-U*					.20	NO			
			P2-12					.20	NO		9	
A 106	1		J3-T*					.20	NO			
			P2-35					.20	NO		9	
A 107	1		J3-S*					.20	NO			
			P2-11					.20	NO		9	
A 108	1		J3-R*					.20	NO			
			P2-41					.20	NO		9	
A 109	1		J3-Q*					.20	NO			
			P2-42					.20	NO		9	
A 110	1		J3-P*					.20	NO			
			P2-66					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR B | SHEET 18 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 111	1		J3-N*					.20	NO			
			P2-47					.20	NO		9	
A 112	1		J3-M*					.20	NO			
			P2-65					.20	NO		9	
A 113	1		J3-K*					.20	NO			
			P2-64					.20	NO		9	
A 114	1		J3-J*					.20	NO			
			P2-60					.20	NO		9	
A 115	1		J3-I*					.20	NO			
			P2-63					.20	NO		9	
A 116	1		J3-H*					.20	NO			
			P2-59					.20	NO		9	
A 117	1		J3-G*					.20	NO			
			P2-58					.20	NO		9	
A 118	1		J3-F*					.20	NO			
			P2-54					.20	NO		9	
A 119	1		J3-E*					.20	NO			
			TB1-51					.30	YES			
A 120	1		J3-D*					.20	NO			
			XF4-1					.30	YES			
A 121	1		J3-C*					.20	NO			
			P2-52					.20	NO		9	
A 122	1		J3-B*					.20	NO			
			P2-48					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR B | SHEET 19 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 123	1		J3-A*					.20	NO			
			P2-28					.20	NO		9	
A 124	1		J3-Z					.20	NO			
			P2-24					.20	NO		9	
A 125	1		J3-Y					.20	NO			
			P2-16					.20	NO		9	
A 126	1		J3-X					.20	NO			
			P2-17					.20	NO		9	
A 127	1		J3-W					.20	NO			
			P2-10					.20	NO		9	
A 128	1		J3-V					.20	NO			
			P2-18					.20	NO		9	
A 129	1		J3-U					.20	NO			
			P5-24					.20	NO		9	
A 130	1		J3-T					.20	NO			
			P5-34					.20	NO		9	
A 131	1		J3-S					.20	NO			
			P5-35					.20	NO		9	
A 132	1		J3-R					.20	NO			
			P5-48					.20	NO		9	
A 133	1		J3-P					.20	NO			
			P5-18					.20	NO		9	
A 134	1		J3-N					.20	NO			
			P5-54					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR B | SHEET 20 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135	1		J3-M					.20	NO			
			P5-12					.20	NO		9	
A 136	1		J3-L					.20	NO			
			P5-60					.20	NO		9	
A 137	1		J3-K					.20	NO			
			P5-6					.20	NO		9	
A 138	1		J3-J					.20	NO			
			P5-66					.20	NO		9	
A 139	1		J4-PP					.20	NO			
			P6-16					.20	NO		9	
A 140	1		J4-NN					.20	NO			
			P6-50					.20	NO		9	
A 141	1		J4-MM					.20	NO			
			P6-17					.20	NO		9	
A 142	1		J4-LL					.20	NO			
			P6-51					.20	NO		9	
A 143	1		J4-KK					.20	NO			
			P6-22					.20	NO		9	
A 144	1		J4-JJ					.20	NO			
			P6-45					.20	NO		9	
A 145	1		J4-HH					.20	NO			
			P6-47					.20	NO		9	
A 146	1		J4-GG					.20	NO			
			P6-27					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR B | SHEET 21 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
147	1		J4-FF					.20	NO			
			P6-46					.20	NO		9	
A 148	1		J4-EE					.20	NO			
			P6-21					.20	NO		9	
A 149	1		J4-DD					.20	NO			
			P6-53					.20	NO		9	
A 150	1		J4-CC					.20	NO			
			P6-14					.20	NO		9	
A 151	1		J4-BB					.20	NO			
			P6-52					.20	NO		9	
A 152	1		J4-AA					.20	NO			
			P6-15					.20	NO		9	
A 153	1		J4-Z*					.20	NO			
			P6-65					.20	NO		9	
A 154	1		J4-Y*					.20	NO			
			P6-2					.20	NO		9	
A 155	1		J4-X*					.20	NO			
			P6-64					.20	NO		9	
A 156	1		J4-W*					.20	NO			
			P6-3					.20	NO		9	
A 157	1		J4-V*					.20	NO			
			P6-59					.20	NO		9	
A 158	1		J4-U*					.20	NO			
			P6-8					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR	SHEET 22 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 159	1		J4-T*					.20	NO			
			P6-58					.20	NO		9	
A 160	1		J4-S*					.20	NO			
			P6-9					.20	NO		9	
A 161	1		J4-R*					.20	NO			
			P6-10					.20	NO		9	
A 162	1		J4-Q*					.20	NO			
			P6-57					.20	NO		9	
A 163	1		J4-P*					.20	NO			
			P6-11					.20	NO		9	
A 164	1		J4-N*					.20	NO			
			P6-56					.20	NO		9	
A 165	1		J4-M*					.20	NO			
			P6-4					.20	NO		9	
A 166	1		J4-K*					.20	NO			
			P6-63					.20	NO		9	
A 167	1		J4-J*					.20	NO			
			P6-5					.20	NO		9	
A 168	1		J4-I*					.20	NO			
			P6-62					.20	NO		9	
A 169	1		J4-H*					.20	NO			
			P5-16					.20	NO		9	
A 170	1		J4-G*					.20	NO			
			P5-50					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 23 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 171	1		J4-F*					.20	NO			
			P5-17					.20	NO		9	
A 172	1		J4-E*					.20	NO			
			P5-51					.20	NO		9	
A 173	1		J4-D*					.20	NO			
			P5-22					.20	NO		9	
A 174	1		J4-C*					.20	NO			
			P5-45					.20	NO		9	
A 175	1		J4-B*					.20	NO			
			P5-47					.20	NO		9	
A 176	1		J4-A*					.20	NO			
			P5-27					.20	NO		9	
A 177	1		J4-Z					.20	NO			
			P5-46					.20	NO		9	
A 178	1		J4-Y					.20	NO			
			P5-21					.20	NO		9	
A 179	1		J4-X					.20	NO			
			P5-53					.20	NO		9	
A 180	1		J4-W					.20	NO			
			P5-14					.20	NO		9	
A 181	1		J4-V					.20	NO			
			P5-52					.20	NO		9	
A 182	1		J4-U					.20	NO			
			P5-15					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 24 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 183	1		J4-T					.20	NO			
			P5-65					.20	NO		9	
A 184	1		J4-S					.20	NO			
			P5-2					.20	NO		9	
A 185	1		J4-R					.20	NO			
			P5-64					.20	NO		9	
A 186	1		J4-P					.20	NO			
			P5-3					.20	NO		9	
A 187	1		J4-N					.20	NO			
			P5-59					.20	NO		9	
A 188	1		J4-M					.20	NO			
			P5-8					.20	NO		9	
A 189	1		J4-L					.20	NO			
			P5-58					.20	NO		9	
A 190	1		J4-K					.20	NO			
			P5-9					.20	NO		9	
A 191	1		J4-J					.20	NO			
			P5-10					.20	NO		9	
A 192	1		J4-H					.20	NO			
			P5-57					.20	NO		9	
A 193	1		J4-G					.20	NO			
			P5-11					.20	NO		9	
A 194	1		J4-F					.20	NO			
			P5-56					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 25 OF 49

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	1		P6-41					.20	NO		9	
			P7-33					.20	NO		9	
A 365	1		E4					.30	NO			
			P5-39					.20	NO		9	
A 366	1		E4					.30	NO			
			P6-39					.20	NO		9	
A 367	1		E4					.30	NO		23, 16	
			P7-27					.20	NO		9	
A 368	1		E5					.30	NO			
			P5-33					.20	NO		9	
A 369	1		E5					.30	NO			
			P6-33					.20	NO		9	
A 370	1		E5					.30	NO		23, 16	
			P7-39					.20	NO		9	
A 371	1		Y1-6					.30	YES		31	
			J13-U					.30	YES			
A 372	1		Y2-6					.30	YES		31	
			J13-K					.30	YES			
A 373	1		Y3-6					.30	YES		31	
			J13-J					.30	YES			
A 374	1		R78-2					.30	YES			
			S9-1					.30	YES			
A 375	1		S9-1					.30	YES			
			TB6-36					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 376	1		TB6-36					.30	YES			
			P7-4					.20	NO		9	
A 377	1		S9-3					.30	YES			
			P7-16					.20	NO		9	
A 378	1		S9-6					.30	YES			
			P7-54					.20	NO		9	
A 379	1		TB6-26					.30	YES			
			R79-3					.30	YES			
A 380	1		R79-3					.30	YES			
			P7-47					.20	NO		9	
A 381	1		TB6-27					.30	YES			
			FL5-C					.30	YES		31	
A 382	1		P7-12					.20	NO		9	
			TB6-40					.30	YES			
A 383	1		P7-24					.20	NO		9	
			TB6-38					.30	YES			
A 384	1		P7-5					.20	NO		9	
			TB6-44					.30	YES			
A 385	1		P7-6					.20	NO		9	
			TB6-42					.30	YES			
A 386	1		P7-42					.20	NO		9	
			J17					.30	YES			
A 387	1		P7-30					.20	NO		9	
			J18					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 388	1		FL1-OUT					.30	YES		31	
			TB6-41					.30	YES			
A 389	1		FL1-IN					.30	YES		31	
			J14-M					.30	YES			
A 390	1		FL2-OUT					.30	YES		31	
			TB6-43					.30	YES			
A 391	1		FL1-IN					.30	YES		31	
			J14-E					.30	YES			
A 392	1		FL3-IN					.30	YES		31	
			J14-E*					.30	YES			
A 393	1		FL3-OUT					.30	YES		31	
			S12-5					.30	YES			
A 394	1		S12-5					.30	YES			
			S11-5					.30	YES			
A 395	1		FL4-IN					.30	YES		31	
			J14-Z					.30	YES			
A 396	1		FL4-OUT					.30	YES		31	
			S14-5					.30	YES			
A 397	1		S14-5					.30	YES			
			S13-5					.30	YES			
A 398	1		S11-2					.30	YES			
			J14-B*					.30	YES			
A 399	1		S12-2					.30	YES			
			J14-C*					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 400	1		S13-2					.30	YES			
			J14-V					.30	YES			
A 401	1		S14-2					.30	YES			
			J14-W					.30	YES			
A 402	3				1.25	1.00				4	A 15 A 15, 11, 13	
A 402B	1		E10					.30	NO			
			SHLD A402					.25	NO			
A 402W			R79-2					.30	YES			
			TB6-37					.30	YES			
A 403	3				1.00 1.25	.75 1.00				4	A 15 A 15, 11, 13	
A 403B	1		E9					.30	NO			
			SHLD A403					.25	NO			
A 403W			R79-1					.30	YES			
			TB4-16					.30	YES			
A 404	3				1.00 1.25	.75 1.00				4	A 15 A 15, 11, 13	
A 404B	1		E10					.30	NO			
			SHLD A404					.25	NO			
A 404W			R80-2					.30	YES			
			TB6-39					.30	YES			
A 405	3				1.00 1.25	.75 1.00				4	A 15 A 15, 11, 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405B	1		E9					.30	NO			
			SHLD A405					.25	NO			
A 405W			R80-1					.30	YES			
			TB4-10					.30	YES			
A 406	1		FL5-IN					.30	YES		31	
			TB4-14					.30	YES			
A 407	1		FL5-OUT					.30	YES		31	
			S10-2					.30	YES			
A 408	1		S10-3					.30	YES			
			TB4-15					.30	YES			
A 409	1		TB4-9					.30	YES			
			S11-4					.30	YES			
A 410	1		TB4-8					.30	YES			
			S12-4					.30	YES			
A 411	1		TB4-7					.30	YES			
			S13-4					.30	YES			
A 412	1		TB4-6					.30	YES			
			S14-4					.30	YES			
A 413	1		TB4-13					.30	YES			
			J15-P					.30	YES			
A 414	1		S11-1					.30	YES			
			J16-E*					.30	YES			
A 415	1		S11-3					.30	YES			
			J14-B					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR B	SHEET 46 OF 49

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS 1
A 416	1		J14-B					.30	YES			
			J16-B*					.30	YES			
A 417	1		S12-1					.30	YES			
			J16-Z					.30	YES			
A 418	1		S12-3					.30	YES			
			J14-P					.30	YES			
A 419	1		J14-P					.30	YES			
			J16-V					.30	YES			
A 420	1		S13-1					.30	YES			
			J16-T					.30	YES			
A 421	1		S13-3					.30	YES			
			J16-N					.30	YES			
A 422	1		S14-1					.30	YES			
			J16-J					.30	YES			
A 423	1		S14-3					.30	YES			
			J16-D					.30	YES			
A 424	1		J13-C					.30	YES			
			J15-F					.30	YES			
A 425	1		J13-F					.30	YES			
			J16-F					.30	YES			
A 426	1		J13-Z					.30	YES			
			J16-S					.30	YES			
A 427	1		E6					.30	NO		22, 17	
			P3-47					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR B	SHEET 47 OF 49

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428	1		E7					.30	NO			
			P3-48					.20	NO		9	
A 429	1		E7					.30	NO		22, 17	
			E8					.30	NO			
A 430	1		E8					.30	NO		23, 16	
			E10					.30	NO			
A 431	1		E10					.30	NO		23, 16	
			E9					.30	NO		22, 17	
A 432	1		S15SW1-C					.30	YES			
			P1-12					.20	NO		9	
A 433	1		S15SW2-C					.30	YES			
			P1-60					.20	NO		9	
A 434	1		T17-3					.30	YES			
			P1-11					.20	NO		9	
A 435	1		T17-4					.30	YES			
			P1-59					.20	NO		9	
A 436	1		J2-M					.20	NO			
			P4-5					.20	NO		9	
A 437	1		J2-N					.20	NO			
			P4-56					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR B	SHEET 48 OF 49

MIL 2084 4-63

CONFIGURATION NOT AVAILABLE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR B	SHEET 49 OF 49

MIL 2084 4-63

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902023-011	1902023-011	B	UPGRADED TO CLASS A PER TDER# 7838	19 MAR 65	
		C	REVISED PER TDR#1984	14-JUN 65	

REV	C
SHEET	50

SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
REV STATUS	REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Effective 65

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN		DATE 15 FEB 65
CHECKED		15 FEB 65
APPROVAL		15 FEB 65
APPROVAL		
NASA APPROVAL		
MIT APPROVAL		

CONTRACT NAS9-897

SCALE —

SHEET 1 OF 50

CODE IDENT NO.	SIZE		REV
99974	A	1902258	C

WIRING HARNESS "A"

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
18	18	2	1010490-218	INSULATION-SLEEVING, HEAT SHRINK
18	19	4	1010490-222	INSULATION-SLEEVING, HEAT SHRINK
18	20	2	1010490-224	INSULATION-SLEEVING, HEAT SHRINK
18	21	1	1015902- 45	TERMINAL LUG
18	22	4	1016006-002	SPLICE REDUCER
18	23	5	1016006-001	SPLICE REDUCER
18	24	1	1016379-107	CONNECTOR
18	25	1	1016379-105	CONNECTOR
18	26	2	1016379-103	CONNECTOR
	27	AR	1012507-004	TAPE LACING AND TYING
	28	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	29	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	30	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
18	31	83	1015864-106	INSULATION-SLEEVING, ELECTRICAL

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	J1-PP CR27-2					.20 .30	NO YES			
A	2	1	J1-NN E1					.20 .30	NO NO		21	
A	3	1	E1 P3-41					.30 .20	NO NO		9	
A	4	2			1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A	4A	1	SHLD A4 E6					.25 .30	NO NO			
A	4L		J1-MM TB6-38					.20 .30	NO YES			
A	4R		J1-LL TB6-26					.20 .30	NO YES			
A	5	1	J1-KK P2-50					.20 .20	NO NO		9	
A	6	1	J1-JJ P2-4					.20 .20	NO NO		9	
A	7	1	J1-HH P2-56					.20 .20	NO NO		9	
A	8	1	J1-GG P2-3					.20 .20	NO NO		9	
A	9	2			1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	9A	1	SHLD A9 E6					.25 .30	NO NO			
A	9L		J1-FF TB6-40					.20 .30	NO YES			
A	9R		J1-EE TB6-28					.20 .30	NO YES			
A	10	1	J1-DD TB5-3					.20 .30	NO YES			
A	11	1	J1-CC TB5-4					.20 .30	NO YES			
A	12	1	J1-BB P2-61					.20 .20	NO NO		9	
A	13	1	J1-AA P2-15					.20 .20	NO NO		9	
A	14	1	J1-Z• P2-8					.20 .20	NO NO		9	
A	15	1	J1-Y• P2-21					.20 .20	NO NO		9	
A	16	1	J1-X• P2-2					.20 .20	NO NO		9	
A	17	1	J1-W• P2-27					.20 .20	NO NO		9	
A	18	1	J1-V• P2-1					.20 .20	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	19	1	J1-U• P2-46					.20 .20	NO NO		9	
A	20	1	J1-T• P2-7					.20 .20	NO NO		9	
A	21	1	J1-S• P2-51					.20 .20	NO NO		9	
A	22	1	J1-R• P2-13					.20 .20	NO NO		9	
A	23	1	J1-Q• P2-45					.20 .20	NO NO		9	
A	24	1	J1-P• P2-19					.20 .20	NO NO		9	
A	25	1	J1-N• P2-39					.20 .20	NO NO		9	
A	26	1	J1-J• P2-25					.20 .20	NO NO		9	
A	27	1	J1-I• P2-33					.20 .20	NO NO		9	
A	28	2			1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A	28A	1	SHLD A28 E6					.25 .30	NO NO			
A	28L		J1-M• S9-6					.20 .30	NO YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28R			J1-K* S9-3					.20 .30	NO YES			
A 29	1		J1-H* P2-31					.20 .20	NO NO		9	
A 30	1		J1-G* P2-32					.20 .20	NO NO		9	
A 31	2				1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A 31A	1		SHLD A31 E6					.25 .30	NO NO			
A 31L			J1-E* TB6-45					.20 .30	NO YES			
A 31R			J1-F* TB6-42					.20 .30	NO YES			
A 32	1		J1-D* P6-6					.20 .20	NO NO		9	
A 33	1		J1-C* P6-66					.20 .20	NO NO		9	
A 34	2				1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A 34A	1		SHLD A34 E6					.25 .30	NO NO			
A 34L			J1-A* TB6-45					.20 .30	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 10 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34R			J1-B* TB6-44					.20 .30	NO YES			
A 35	1		J1-Z P6-35					.20 .20	NO NO		9	
A 36	1		J1-Y P6-48					.20 .20	NO NO		9	
A 37	1		J1-X P6-18					.20 .20	NO NO		9	
A 38	1		J1-W P6-54					.20 .20	NO NO		9	
A 39	1		J1-V P6-12					.20 .20	NO NO		9	
A 40	1		J1-U P6-60					.20 .20	NO NO		9	
A 41	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 41A	1		SHLD A41 E6					.25 .30	NO NO			
A 41L			J1-T S9-5					.20 .30	NO YES			
A 41R			J1-S S9-2					.20 .30	NO YES			
A 42	1		J1-R E7					.20 .30	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 11 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 43	1		J1-P E6					.20 .30	NO NO			
A 44	1		J1-N XF2-1					.20 .30	NO YES			
A 45	1		J1-M P3-54					.20 .20	NO NO		9	
A 46	1		J1-L P2-55					.20 .20	NO NO		9	
A 47	1		J1-K P2-14					.20 .20	NO NO		9	
A 48	1		J1-J P2-49					.20 .20	NO NO		9	
A 49	1		J1-H P2-20					.20 .20	NO NO		9	
A 50	1		J2-PP P3-60					.20 .20	NO NO		9	
A 51	1		J2-NN P3-59					.20 .20	NO NO		9	
A 52	1		J2-MM P3-34					.20 .20	NO NO		9	
A 53	1		J2-LL TB3-72					.20 .30	NO YES			
A 54	1		J2-KK TB3-74					.20 .30	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 12 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55	1		J2-JJ TB3-75					.20 .30	NO YES			
A 56	1		J2-HH TB3-76					.20 .30	NO YES			
A 57	1		J2-GG TB2-47					.20 .30	NO YES			
A 58	1		J2-FF E2					.20 .30	NO NO			
A 59	1		J2-EE T16-3					.20 .30	NO YES		31	
A 60	1		J2-DD T16-1					.20 .30	NO YES		31	
A 61	1		J2-CC T15-2					.20 .30	NO YES		31	
A 62	1		J2-BB T15-3					.20 .30	NO YES		31	
A 63	1		J2-AA T15-1					.20 .30	NO YES		31	
A 64	1		J2-Z* T14-2					.20 .30	NO YES		31	
A 65	1		J2-Y* T14-3					.20 .30	NO YES		31	
A 66	1		J2-X* T14-1					.20 .30	NO YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 13 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67	1		J2-W* T13-2					.20 .30	NO YES		31	
A 68	1		J2-V* T13-3					.20 .30	NO YES		31	
A 69	1		J2-U* T13-1					.20 .30	NO YES		31	
A 70	1		J2-T* T12-2					.20 .30	NO YES		31	
A 71	1		J2-S* T12-3					.20 .30	NO YES		31	
A 72	1		J2-R* T12-1					.20 .30	NO YES		31	
A 73	1		J2-Q* T11-2					.20 .30	NO YES		31	
A 74	1		J2-P* T11-3					.20 .30	NO YES		31	
A 75	1		J2-N* T11-1					.20 .30	NO YES		31	
A 76	1		J2-M* L4-2					.20 .30	NO YES		31	
A 77	1		J2-K* L4-1					.20 .30	NO YES		31	
A 78	1		J2-J* L3-1					.20 .30	NO YES		31	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79	3				1.25 1.00	1.00 .75				4	A 15, 11, 13 A 15	
A 79A	1		SHLD A79 E7					.25 .30	NO NO			
A 79W			J2-I* P8-18					.20 .20	NO NO		9	
A 80	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 80A	1		SHLD A80 E7					.25 .30	NO NO			
A 80L			J2-H* P8-12					.20 .20	NO NO		9	
A 80R			J2-G* P8-48					.20 .20	NO NO		9	
A 81	3				1.25 1.00	1.00 .75				4	A 15, 11, 13 A 15	
A 81A	1		SHLD A81 E7					.25 .30	NO NO			
A 81W			J2-F* P8-24					.20 .20	NO NO		9	
A 82	2				1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A 82A	1		SHLD A82 E7					.25 .30	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 82L			J2-E* P8-30					.20 .20	NO NO		9	
A 82R			J2-D* P8-54					.20 .20	NO NO		9	
A 83	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 83A	1		SHLD A83 E7					.25 .30	NO NO			
A 83L			J2-B* P8-5					.20 .20	NO NO		9	
A 83R			J2-C* P8-66					.20 .20	NO NO		9	
A 84	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 84A	1		SHLD A84 E7					.25 .30	NO NO			
A 84L			J2-Z P8-6					.20 .20	NO NO		9	
A 84R			J2-A* P8-60					.20 .20	NO NO		9	
A 85	1		J2-Y TB3-73					.20 .30	NO YES			
A 86	1		J3-PP P3-53					.20 .20	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 87	1		J3-NN TB3-71					.20 .30	NO YES			
A 88	1		J3-MM P4-41					.20 .20	NO NO		9	
A 89	1		J3-LL P4-20					.20 .20	NO NO		9	
A 90	1		J3-KK P4-42					.20 .20	NO NO		9	
A 91	1		J3-JJ P4-21					.20 .20	NO NO		9	
A 92	1		J3-GG P4-22					.20 .20	NO NO		9	
A 93	1		J3-HH P4-36					.20 .20	NO NO		9	
A 94	1		J3-FF P4-35					.20 .20	NO NO		9	
A 95	1		J3-EE P4-23					.20 .20	NO NO		9	
A 96	1		J3-DD P4-34					.20 .20	NO NO		9	
A 97	1		J3-CC P4-24					.20 .20	NO NO		9	
A 98	1		J3-BB P2-43					.20 .20	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	1		P6-41 P7-33					.20 .20	NO NO		9 9	
A 365	1		E4 P5-39					.30 .20	NO NO		9	
A 366	1		E4 P6-39					.30 .20	NO NO		9	
A 367	1		E4 P7-27					.30 .20	NO NO		23, 16 9	
A 368	1		E5 P5-33					.30 .20	NO NO		9	
A 369	1		E5 P6-33					.30 .20	NO NO		9	
A 370	1		E5 P7-39					.30 .20	NO NO		23, 16 9	
A 371	1		Y1-6 J13-U					.30 .30	YES YES		31	
A 372	1		Y2-6 J13-K					.30 .30	YES YES		31	
A 373	1		Y3-6 J13-J					.30 .30	YES YES		31	
A 374	1		R78-2 S9-1					.30 .30	YES YES			
A 375	1		S9-1 TB6-36					.30 .30	YES YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 376	1		TB6-36 P7-4					.30 .20	YES NO		9	
A 377	1		S9-3 P7-16					.30 .20	YES NO		9	
A 378	1		S9-6 P7-54					.30 .20	YES NO		9	
A 379	1		TB6-26 R79-3					.30 .30	YES YES			
A 380	1		R79-3 P7-47					.30 .20	YES NO		9	
A 381	1		TB6-27 FL5-C					.30 .30	YES YES		31	
A 382	1		P7-12 TB6-40					.20 .30	NO YES		9	
A 383	1		P7-24 TB6-38					.20 .30	NO YES		9	
A 384	1		P7-5 TB6-44					.20 .30	NO YES		9	
A 385	1		P7-6 TB6-42					.20 .30	NO YES		9	
A 386	1		P7-42 J17					.20 .30	NO YES		9	
A 387	1		P7-30 J18					.20 .30	NO YES		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 388	1		FL1-OUT TB6-41					.30 .30	YES YES		31	
A 389	1		FL1-IN J14-M					.30 .30	YES YES		31	
A 390	1		FL2-OUT TB6-43					.30 .30	YES YES		31	
A 391	1		FL1-IN J14-E					.30 .30	YES YES		31	
A 392	1		FL3-IN J14-E*					.30 .30	YES YES		31	
A 393	1		FL3-OUT S12-5					.30 .30	YES YES		31	
A 394	1		S12-5 S11-5					.30 .30	YES YES			
A 395	1		FL4-IN J14-Z					.30 .30	YES YES		31	
A 396	1		FL4-OUT S14-5					.30 .30	YES YES		31	
A 397	1		S14-5 S13-5					.30 .30	YES YES			
A 398	1		S11-2 J14-B*					.30 .30	YES YES			
A 399	1		S12-2 J14-C*					.30 .30	YES YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 400	1		S13-2 J14-V					.30 .30	YES YES			
A 401	1		S14-2 J14-W					.30 .30	YES YES			
A 402	3				1.25	1.00				4	A 15 A 15, 11, 13	
A 402B	1		E10 SHLD A402					.30 .25	NO NO			
A 402W			R79-2 TB6-37					.30 .30	YES YES			
A 403	3				1.00 1.25	.75 1.00				4	A 15 A 15, 11, 13	
A 403B	1		E9 SHLD A403					.30 .25	NO NO			
A 403W			R79-1 TB4-16					.30 .30	YES YES			
A 404	3				1.00 1.25	.75 1.00				4	A 15 A 15, 11, 13	
A 404B	1		E10 SHLD A404					.30 .25	NO NO			
A 404W			R80-2 TB6-39					.30 .30	YES YES			
A 405	3				1.00 1.25	.75 1.00				4	A 15 A 15, 11, 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405B	1		E9					.30	NO			
			SHLD A405					.25	NO			
A 405W			R80-1					.30	YES			
			TB4-10					.30	YES			
A 406	1		FL5-IN					.30	YES		31	
			TB4-14					.30	YES			
A 407	1		FL5-OUT					.30	YES		31	
			S10-2					.30	YES			
A 408	1		S10-3					.30	YES			
			TB4-15					.30	YES			
A 409	1		TB4-9					.30	YES			
			S11-4					.30	YES			
A 410	1		TB4-8					.30	YES			
			S12-4					.30	YES			
A 411	1		TB4-7					.30	YES			
			S13-4					.30	YES			
A 412	1		TB4-6					.30	YES			
			S14-4					.30	YES			
A 413	1		TB4-13					.30	YES			
			J15-P					.30	YES			
A 414	1		S11-1					.30	YES			
			J16-E*					.30	YES			
A 415	1		S11-3					.30	YES			
			J14-B					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR C	SHEET 46 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 416	1		J14-B					.30	YES			
			J16-B*					.30	YES			
A 417	1		S12-1					.30	YES			
			J16-Z					.30	YES			
A 418	1		S12-3					.30	YES			
			J14-P					.30	YES			
A 419	1		J14-P					.30	YES			
			J16-V					.30	YES			
A 420	1		S13-1					.30	YES			
			J16-T					.30	YES			
A 421	1		S13-3					.30	YES			
			J16-N					.30	YES			
A 422	1		S14-1					.30	YES			
			J16-J					.30	YES			
A 423	1		S14-3					.30	YES			
			J16-D					.30	YES			
A 424	1		J13-C					.30	YES			
			J15-F					.30	YES			
A 425	1		J13-F					.30	YES			
			J16-F					.30	YES			
A 426	1		J13-Z					.30	YES			
			J16-S					.30	YES			
A 427	1		E6					.30	NO		22, 17	
			P3-47					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR C	SHEET 47 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428	1		E7					.30	NO			
			P3-48					.20	NO		9	
A 429	1		E7					.30	NO		22, 17	
			E8					.30	NO			
A 430	1		E8					.30	NO		23, 16	
			E10					.30	NO			
A 431	1		E10					.30	NO		23, 16	
			E9					.30	NO		22, 17	
A 432	1		S15SW1-C					.30	YES			
			P1-12					.20	NO		9	
A 433	1		S15SW2-C					.30	YES			
			P1-60					.20	NO		9	
A 434	1		T17-3					.30	YES			
			P1-11					.20	NO		9	
A 435	1		T17-4					.30	YES			
			P1-59					.20	NO		9	
A 436	*1		J2-M					.20	NO			
			P4-5					.20	NO		9	
A 437	1		J2-N					.20	NO			
			P4-56					.20	NO		9	
A 438	1		TB5-3					.30	YES			
			P2-62					.20	NO		9	
A 439	1		TB5-4					.30	YES			
			P2-9					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR C	SHEET 48 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 440	1		TB3-72					.30	YES			
			P3-58					.20	NO		9	
A 441	1		TB3-~~72~~73					.30	YES			
			P3-33					.20	NO		9	
A 442	1		T12-3					.30	YES			
			J2-L					.20	NO			
A 443	1		T11-3					.30	YES			
			J2-K					.20	NO			

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SCALE-NONE	REV LTR C	SHEET 49 OF 50

CONFIGURATION NOT AVAILABLE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR B	SHEET 50 OF 50

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J13 61 SOCKET CONNECTOR MS3127E24-61PY (1897055-613)				
J13-A	SHLD A1	A 1A	IG CDU ENCODER COMMON		259
J13-B			SPARE		
J13-C	J5-M	A 287	27 VDC RLP HI ISS ONLY		112
J13-D			SPARE		
J13-E			SPARE		
J13-F			SPARE		
J13-G	J25-F1	A 2R	MG CDU ENCODER PHASE 1		260
J13-H	J25-C2	A 2L	MG CDU ENCODER PHASE 2		261
J13-J	J25-F2	A 2Y	MG CDU ENCODER COMMON		262
J13-K	J25-C2	A 1R	IG CDU ENCODER PHASE 1		263
J13-L	J25-C1	A 1L	IG CDU ENCODER PHASE 2		264
J13-M	J25-C1	A 1Y	IG CDU ENCODER COMMON		259
J13-N	J25-C4	A 3R	OG CDU ENCODER PHASE 1		265
J13-P	J25-C3	A 3L	OG CDU ENCODER PHASE 2		266
J13-R	J25-C3	A 3Y	OG CDU ENCODER COMMON		267
J13-S	SHLD A2	A 2A	MG CDU ENCODER COMMON		262
J13-T	SHLD A3	A 3A	OG CDU ENCODER COMMON		267
J13-U	J21-F3	A 620R	3200 CPS 2V FDBK HI		268
J13-V	J21-G3	A 620L	3200 CPS 2V FDBK LO		269
J13-W	J27-C8	A 710	IRIG TEMP GAIN SWITCH NC		270
J13-X			SPARE		
J13-Y			SPARE		
J13-Z			SPARE		
J13-A*			SPARE		
J13-B*			SPARE		
J13-C*			SPARE		
J13-D*	J21-B6	A 376R	IMU IG AND Y GYRO ERROR SIG		271
J13-E*	J13-I*	A 374	IMU GIMBAL AND GYRO ERROR SIG LO		272
J13-F*			SPARE		
J13-G*			SPARE		
J13-H*	J21-A5	A 376L	IMU MG ERROR SIGNAL		273
J13-I*	J13-E*	A 374	IMU GIMBAL AND GYRO ERROR SIG LO		272

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J13	61 SOCKET CONNECTOR MS3127E24-61PY (1897055-613)				
J13-I*	J13-K*	A 375	IMU GIMBAL AND GYRO ERROR SIG LO		272
J13-J*	J21-A6	A 376Y	IMU OG ERROR SIGNAL		274
J13-K*	J13-I*	A 375	IMU GIMBAL AND GYRO ERROR SIG LO		272
J13-K*	J21-B5	A 376K	IMU GIMBAL AND GYRO ERROR SIG LO		272
J13-M*	J26-C1	A 132R	IG CDU 16 X ERROR SIGNAL		275
J13-N*	J26-C2	A 132L	IG CDU ERROR SIGNAL RETURN		69
J13-P*	TB1-2B	A 131R	IG CDU 1 X ERROR SIGNAL		276
J13-Q*	TB1-2D	A 131L	IG CDU ERROR SIGNAL RETURN		69
J13-R*	J26-A1	A 13L	IG CDU MDA TACH SIGNAL		277
J13-S*	J26-B1	A 13R	IG CDU MDA INPUT RETURN		1
J13-T*	J26-A2	A 13Y	IG CDU MDA SLEW SIGNAL		278
J13-U*	J26-C3	A 138R	MG CDU 16 X ERROR SIGNAL		279
J13-V*	J26-C4	A 138L	MG CDU ERROR SIGNAL RETURN		70
J13-W*	TB1-3B	A 140R	MG CDU 1 X ERROR SIGNAL		280
J13-X*	TB1-3D	A 140L	MG CDU ERROR SIGNAL RETURN		70
J13-Y*	J26-C3	A 137R	MG CDU 1/2 X ERROR SIGNAL		281
J13-Z*	J26-F3	A 137L	MG CDU ERROR SIGNAL RETURN		282
J13-AA			SPARE		
J13-BB	J26-A3	A 22L	MG CDU MDA TACH SIGNAL		283
J13-CC	J26-B3	A 22R	MG CDU MDA INPUT RETURN		3
J13-DD	J26-A4	A 22Y	MG CDU MDA SLEW SIGNAL		284
J13-EE	TB1-48C	A 145R	OG CDU 16 X ERROR SIGNAL		285
J13-FF	TB1-49B	A 145L	OG CDU ERROR SIGNAL RETURN		286
J13-GG	TB1-4A	A 149R	OG CDU 1 X ERROR SIGNAL		287
J13-HH	TB1-4C	A 149L	OG CDU ERROR SIGNAL RETURN		286
J13-JJ	J26-C5	A 144R	OG CDU 1/2 X ERROR SIGNAL		288
J13-KK	J26-F5	A 144L	OG CDU ERROR SIGNAL RETURN		289
J13-LL	J26-A5	A 33L	OG CDU MDA TACH SIGNAL		290
J13-MM	J26-B5	A 33R	OG CDU MDA INPUT RETURN		5
J13-NN	J26-A6	A 33Y	OG CDU MDA SLEW SIGNAL		291
J13-PP			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J14	61 SOCKET CONNECTOR MS3127E24-61PX (1897055-612)				
J14-J*	J25-B3	A 68	AGC COMMON		9
J14-K*			SPARE		
J14-M*	TB2-44A	A 271R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J14-N*	TB2-44C	A 271L	800 CPS 28V 5 PCT L-90 DEG LO IMU		227
J14-P*			SPARE		
J14-Q*	J26-F4	A 154W	MG CDU 1 X RSVR LOAC		305
J14-R*	J26-F2	A 153W	IG CDU 1 X RSVR LOAC		306
J14-S*	J26-F6	A 155W	OG CDU 1 X RSVR LOAC		307
J14-T*	J26-C7	A 156W	OG CDU 16 X RSVR LOAD		308
J14-U*	TB3-18G	A 537	0 VDC IMU		7
J14-V*	J15-H	A 503	+ 28 VDC AGC BUS A		309
J14-W*	J15-P	A 506	+ 28 VDC AGC BUS B		310
J14-X*	TB3-7A	A 586	AGC 0 VDC BUS		7
J14-Z*	J25-A3	A 70	MANUAL CDU MODE IND TO AGC		311
J14-AA	J25-S3	A 67	LOCK CDU RELAY CONTROL		312
J14-BB	J25-H4	A 34	FINE ALIGN RELAY CONTROL		313
J14-CC	J21-L3	A 373	COARSE ALIGN RELAY CONTROL		314
J14-DD	J26-M1	A 177	ENTRY RELAY CONTROL		315
J14-EE	J25-S1	A 65	ZERO ENCODER RELAY CONTROL		316
J14-FF			SPARE		
J14-GG			SPARE		
J14-HH			SPARE		
J14-JJ			SPARE		
J14-KK			SPARE		
J14-LL	J26-A7	A 176	ZERO ENCODER MODE IND TO AGC		317
J14-MM	J26-C1	A 130R	IG CDU 1/2 X ERROR SIGNAL		318
J14-NN	J26-F1	A 130L	IG CDU ERROR SIGNAL RETURN		319
J14-PP	J27-T3	A 760	+ 28VDC IMU		320

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J14 61 SOCKET CONNECTOR MS3127E24-61PX (1897055-612)				
J14-A	K13-7	A 616R	3200 CPS 2V HI		292
J14-B			SPARE		
J14-C	K13-1	A 616L	3200 CPS 2V LO		293
J14-D			SPARE		
J14-E			SPARE		
J14-F			SPARE		
J14-G			SPARE		
J14-H			SPARE		
J14-J			SPARE		
J14-K			SPARE		
J14-L			SPARE		
J14-M	J26-S1	A 178	+ 28 VDC IMU FOR IG MDA		294
J14-N	J26-T1	A 179	+ 28 VDC IMU FOR MG MDA		295
J14-P	J26-T2	A 180	+ 28 VDC IMU FOR OG MDA		296
J14-R			SPARE		
J14-S	J27-P6	A 758	CONDITION LAMP TEST		297
J14-T	K14-3	A 821L	800 CPS 28V 5 PCT IMU WHL LO		298
J14-U	K14-6	A 821Y	800 CPS 28V 5 PCT IMU WHL PH B		299
J14-V	K14-9	A 821R	800 CPS 28V 5 PCT IMU WHL PH A		300
J14-W	J15-K	A 509	+ 28 VDC STBY BUS A		301
J14-X	J15-L	A 514	+ 28 VDC STBY BUS B		302
J14-Y	J15-B	A 521	+ 28 VDC IMU BUS A		303
J14-Z	J15-C	A 530	+ 28 VDC IMU BUS B		304
J14-A*	K13-5	A 615R	3200 CPS 2V HI		24
J14-B*	K13-3	A 615L	3200 CPS 2V LO		25
J14-C*			SPARE		
J14-D*			SPARE		
J14-E*			SPARE		
J14-F*	TB1-13B	A 75R	25.6 KC HI IMU		232
J14-G*	TB1-14C	A 75L	25.6 KC LO IMU		7
J14-H*	TB1-15D	A 79R	800 CPS 28V 1 PCT HI IMU		10
J14-I*	TB1-16D	A 79L	800 CPS 28V 1 PCT LC IMU		231

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-43 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-43A	TB2-43B		INTERNAL BUS		39
TB2-43A	TB2-42D	A 92	+28 VDC IMU		39
TB2-43A	J25-S6	A 114	+28 VDC IMU		39
TB2-43B	TB2-43A		INTERNAL BUS		39
TB2-43B	TB2-43C		INTERNAL BUS		39
TB2-43B	J30-L1	A 89	+28 VDC IMU		39
TB2-43B	J26-S2	A 115	+28 VDC IMU		39
TB2-43C	TB2-43B		INTERNAL BUS		39
TB2-43C	TB2-43D		INTERNAL BUS		39
TB2-43C	J30-L2	A 90	+28 VDC IMU		39
TB2-43C	J3-H*	A 93	+28 VDC IMU		39
TB2-43D			SPARE (+28 VDC IMU)		39
TB2-43D	TB2-43C		INTERNAL BUS		39
TB2-43D	J23-S6	A 111	+28 VDC IMU		39
	TB2-44 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-44A	TB2-44B		INTERNAL BUS		226
TB2-44A	J22-H4	A 268R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44A	J14-M*	A 271R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44B	TB2-44A		INTERNAL BUS		226
TB2-44B	J30-L6	A 267R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44B	J12-M	A 272R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44C	TB2-44D		INTERNAL BUS		227
TB2-44C	J22-K4	A 268L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
TB2-44C	J14-N*	A 271L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
TB2-44D	TB2-44C		INTERNAL BUS		227
TB2-44D	J30-K5	A 267L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
TB2-44D	J12-N	A 272L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-45 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-45A	TB2-45B		INTERNAL BUS		
TB2-45A	J17-AA	A 274	+28 VDC OPTICS TRK PWR		368
TB2-45A	J30-N4	A 275	+28 VDC OPTICS TRK PWR		368
TB2-45B	TB2-45A		INTERNAL BUS		368
TB2-45B	J31-CC	A 276	+28 VDC OPTICS TRK PWR		368
TB2-45B	J32-N*	A 277R	+28 VDC OPTICS TRK PWR		368
TB2-45C	TB2-45D		INTERNAL BUS		368
TB2-45C	J32-X*	A 277L	0 VDC CPTICS		7
TB2-45C	TB3-17A	A 278	0 VDC OPTICS		7
TB2-45D			SPARE (0 VDC OPTICS)		7
TB2-45D			SPARE (0 VDC OPTICS)		7
TB2-45D	TB2-45C		INTERNAL BUS		7
					7
	TB2-46 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-46A	TB2-46B		INTERNAL BUS		
TB2-46A	J28-T2	A 423	+28 VDC OPTICS		468
TB2-46A	J27-T6	A 425	+28 VDC OPTICS		468
TB2-46B	TB2-46A		INTERNAL BUS		468
TB2-46B	J29-T5	A 424	+28 VDC CPTICS		468
TB2-46B	J30-N6	A 426	+28 VDC OPTICS		468
TB2-46C			SPARE		468
TB2-46C			SPARE		
TB2-46C	TB2-46D		INTERNAL BUS		
TB2-46D			SPARE		
TB2-46D			SPARE		
TB2-46D	TB2-46C		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-47 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-47A	TB2-47B		INTERNAL BUS		370
TB2-47A	J17-CC	A 590	+28 VDC OPTICS		370
TB2-47A	J30-P5	A 591	+28 VDC OPTICS		370
TB2-47B	TB2-47A		INTERNAL BUS		370
TB2-47B	J26-S5	A 430	+28 VDC OPTICS		370
TB2-47B	J22-S6	A 589	+28 VDC OPTICS		370
TB2-47C	TB2-47D		INTERNAL BUS		341
TB2-47C	J26-S6	A 428	+28 VDC OPTICS		341
TB2-47C	J30-P6	A 429	+28 VDC OPTICS		341
TB2-47D			SPARE (+28 VDC OPTICS)		341
TB2-47D	TB2-47C		INTERNAL BUS		341
TB2-47D	J16-AA	A 427	+28 VDC OPTICS		341
	TB2-48 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-48A	TB2-48B		INTERNAL BUS		241
TB2-48A	J27-T1	A 497	+28 VDC STBY		241
TB2-48A	J30-R3	A 499	+28 VDC STBY		241
TB2-48B	TB2-48A		INTERNAL BUS		241
TB2-48B	J12-Q*	A 498	+28 VDC STBY		241
TB2-48B	J30-R4	A 500	+28 VDC STBY		241
TB2-48C			SPARE		
TB2-48C			SPARE		
TB2-48C	TB2-48D		INTERNAL BUS		
TB2-48D			SPARE		
TB2-48D			SPARE		
TB2-48D	TB2-48C		INTERNAL BUS		

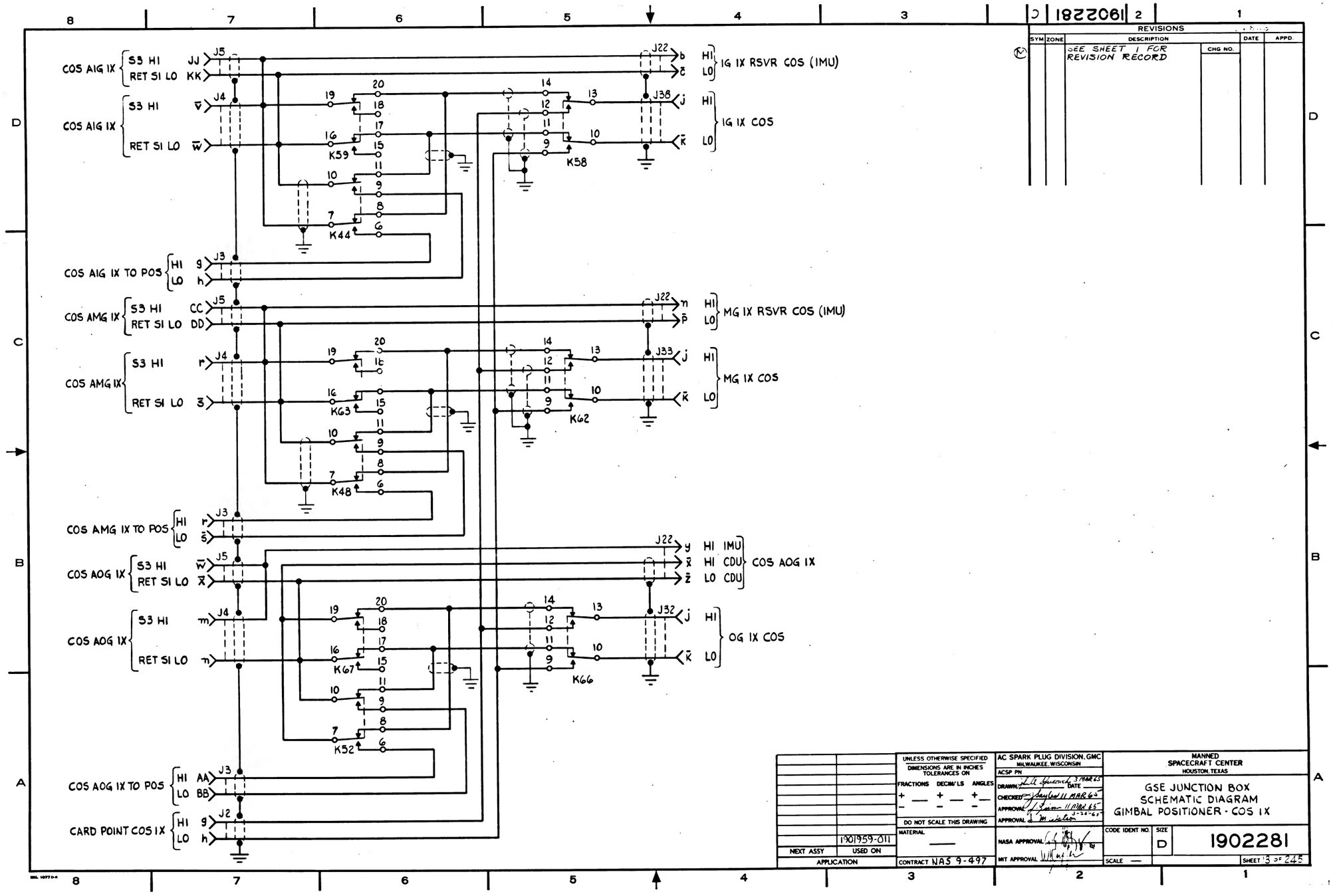
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-49 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-49A	TB2-49B		INTERNAL BUS		301
TB2-49A	J15-K	A 507	+28 VDC STBY BUS A		301
TB2-49A	J30-T3	A 510	+28 VDC STBY BUS A		301
TB2-49B	TB2-49A		INTERNAL BUS		301
TB2-49B	J15-K	A 508	+28 VDC STBY BUS A		301
TB2-49B	J30-S3	A 511	+28 VDC STBY BUS A		301
TB2-49C	TB2-49D		INTERNAL BUS		302
TB2-49C	J15-L	A 512	+28 VDC STBY BUS B		302
TB2-49C	J30-T4	A 515	+28 VDC STBY BUS B		302
TB2-49D	TB2-49C		INTERNAL BUS		302
TB2-49D	J15-L	A 513	+28 VDC STBY BUS B		302
TB2-49D	J30-S4	A 516	+28 VDC STBY BUS B		302
	TB2-50 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-50A	TB2-50B		INTERNAL BUS		303
TB2-50A	J15-A	A 517	+28 VDC IMU BUS A		303
TB2-50A	J30-P1	A 522	+28 VDC IMU BUS A		303
TB2-50B	TB2-50A		INTERNAL BUS		303
TB2-50B	TB2-50C		INTERNAL BUS		303
TB2-50B	J15-A	A 518	+28 VDC IMU BUS A		303
TB2-50B	J30-R1	A 523	+28 VDC IMU BUS A		303
TB2-50C	TB2-50B		INTERNAL BUS		303
TB2-50C	TB2-50D		INTERNAL BUS		303
TB2-50C	J15-B	A 519	+28 VDC IMU BUS A		303
TB2-50C	J30-S1	A 524	+28 VDC IMU BUS A		303
TB2-50D	TB2-50C		INTERNAL BUS		303
TB2-50D	J15-B	A 520	+28 VDC IMU BUS A		303
TB2-50D	J30-T1	A 525	+28 VDC IMU BUS A		303

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 156 OF 173

MIL 2084 4-63



REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

1902281 C

NEXT ASSY	USED ON	1901959-011		
APPLICATION		CONTRACT NAS 9-497		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIM'LS ANGLES + — + — + — DO NOT SCALE THIS DRAWING MATERIAL —

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 3 MAR 65 DATE
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL 3-24-65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - COS IX

CODE IDENT NO. | SIZE D | 1902281 | SCALE — | SHEET 13 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	E77 SPLICE REDUCER (1016006-002)				
					3
E77B	E77BB		JUMPER STRAP		3
E77B	E68BB	A1028	SHIELD GROUND	20	3
E77B	E69BB	A1029	SHIELD GROUND	20	3
E77B	E76BB	A1036	SHIELD GROUND	20	3
E77BB	E77B		JUMPER STRAP		3
E77BB	TB15-7	A1037	SHIELD GROUND	16	3
	E78 SPLICE REDUCER (1016006-003)				
					3
E78B	E78BB		JUMPER STRAP		3
E78B	E71BB	A1031	SHIELD GROUND	20	3
E78B	E72BB	A1032	SHIELD GROUND	20	3
E78B	E73BB	A1033	SHIELD GROUND	20	3
E78B	E74BB	A1034	SHIELD GROUND	20	3
E78B	E75BB	A1035	SHIELD GROUND		3
E78BB	E78B		JUMPER STRAP		3
E78BB	TB15-5	A1038	SHIELD GROUND	16	3
	E79 SPLICE REDUCER (1016006-003)				
					3
E79B	E79BB		JUMPER STRAP		3
E79B	E21BB	A 982	SHIELD GROUND	20	3
E79B	E22BB	A 983	SHIELD GROUND	20	3
E79B	E23BB	A 984	SHIELD GROUND	20	3
E79B	E24BB	A 985	SHIELD GROUND	20	3
E79B	E25BB	A 986	SHIELD GROUND	20	3
E79B	E91BB	A1062	SHIELD GROUND		3
E79BB	E79B		JUMPER STRAP		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR C | SHEET 47 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) E79	SPLICE REDUCER (1016006-003)				
E79BB	TB15-2	A1039	SHIELD GROUND	16	3
	E80 SPLICE REDUCER (1016006-003)				
					3
E80B	E80BB		JUMPER STRAP		3
E80B	E20BB	A 981	SHIELD GROUND	20	3
E80B	E32BB	A 993	SHIELD GROUND	20	3
E80B	E33BB	A 994	SHIELD GROUND	20	3
E80B	E34BB	A 995	SHIELD GROUND	20	3
E80B	E35BB	A 996	SHIELD GROUND	20	3
E80BB	E80B		JUMPER STRAP		3
E80BB	TB15-4	A1040	SHIELD GROUND	16	3
	E81 SPLICE REDUCER (1016006-003)				
					3
E81B	E81BB		JUMPER STRAP		3
E81B	E50BB	A1011	SHIELD GROUND	20	3
E81B	E51BB	A1012	SHIELD GROUND	20	3
E81B	E52BB	A1013	SHIELD GROUND	20	3
E81B	E53BB	A1014	SHIELD GROUND	20	3
E81B	E54BB	A1015	SHIELD GROUND		3
E81BB	E81B		JUMPER STRAP		3
E81BB	TB15-12	A1041	SHIELD GROUND	16	3
	E82 SPLICE REDUCER (1016006-002)				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR C | SHEET 48 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) E82	SPLICE REDUCER (1016006-002)				
					3
E82B	E82BB		JUMPER STRAP		3
E82B	E55BB	A1016	SHIELD GROUND	20	3
E82B	E59BB	A1020	SHIELD GROUND	20	3
E82B	E60BB	A1021	SHIELD GROUND	20	3
E82B	E61BB	A1060	SHIELD GROUND		3
E82BB	E82B		JUMPER STRAP		3
E82BB	TB15-13	A1042	SHIELD GROUND	16	3
	E87 SPLICE REDUCER (1016006-002)				
					7
E87B	E87BB		JUMPER STRAP		7
E87B	J34-G	A 274	0 VDC IMU	20	7
E87B	J34-J	A 275	AGC COMMON (SIMULATED)	20	7
E87B	J27-J*	A 432	ISS 0 VDC COMPUTER COMMON	20	7
E87B	K3-9	A 658	IMU POWER 28 VDC RETURN (0 VDC)	20	7
E87B	J45-H*	A 706	AGC COMMON	20	7
E87B	J45-N*	A 707	0 VDC		7
E87BB	E87B		JUMPER STRAP		7
E87BB	TB16-6	A1047	ISS ZERO VDC	16	7
	E88 SPLICE REDUCER (1016006-003)				
					3
E88B	E88BB		JUMPER STRAP		3
E88B	E56BB	A1017	SHIELD GROUND	20	3
E88B	E62BB	A1022	SHIELD GROUND	20	3
E88B	E65BB	A1025	SHIELD GROUND	20	3
E88B	E66BB	A1026	SHIELD GROUND	20	3
E88B	E67BB	A1027	SHIELD GROUND		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR C | SHEET 49 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) E88	SPLICE REDUCER (1016006-003)				
E88B	E94BB	A1075	SHIELD GROUND	20	3
E88B	SHLD A1155	A1155A	SHIELD GROUND	22	3
E88BB	E88B		JUMPER STRAP		3
E88BB	TB15-14	A1049	SHIELD GROUND	16	3
	E89 SPLICE REDUCER (1016006-003)				
					3
E89B	E89BB		JUMPER STRAP		3
E89B	SHLD A331	A 331A	SHIELD GROUND	22	3
E89B	J23-C	A 332	CABLE SHIELD GND	20	3
E89B	SHLD A334	A 334A	SHIELD GROUND	22	3
E89B	J23-H	A 335	SHIELD GROUND	20	3
E89B	SHLD A336	A 336A	SHIELD GROUND	22	3
E89B	SHLD A337	A 337A	SHIELD GROUND	22	3
E89B	J23-R	A 338	SHIELD GROUND	20	3
E89B	E40B	A1004	SHIELD GROUND	20	3
E89BB	E89B		JUMPER STRAP		3
	E90 SPLICE REDUCER (1016006-003)				
					3
E90B	E90BB		JUMPER STRAP		3
E90B	SHLD A339	A 339A	SHIELD GROUND	22	3
E90B	SHLD A340	A 340A	SHIELD GROUND	22	3
E90B	SHLD A341	A 341A	SHIELD GROUND	22	3
E90B	SHLD A342	A 342A	SHIELD GROUND	22	3
E90B	SHLD A343	A 343A	SHIELD GROUND	22	3
E90B	SHLD A344	A 344A	SHIELD GROUND	22	3
E90B	SHLD A345	A 345A	SHIELD GROUND		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR C | SHEET 50 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J4	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J4-A	J22-L	A1116	IMU TEMP LIGHT (MAIN PANEL)	20	159
J4-B			SPARE CONTACT (DO NOT USE)		
J4-C			SPARE CONTACT		
J4-D			SPARE CONTACT		
J4-E			SPARE CONTACT		
J4-F			SPARE CONTACT		
J4-G			SPARE CONTACT		
J4-H			SPARE CONTACT		
J4-J			SPARE CONTACT		
J4-K			SPARE CONTACT		
J4-L			SPARE CONTACT		
J4-M	J34-X	A 526	MAIN PANEL GIMBAL LOCK LIGHT	22	414
J4-N			SPARE CONTACT		
J4-P	TB13-9A	A1117	O VDC SPACECRAFT	20	248
J4-R	J22-C	A1118	ERROR DETECT LIGHT (MAIN PANEL)	20	140
J4-S	J22-M	A 62R	WIRED SPARE	24	161
J4-T	J22-N	A 62L	WIRED SPARE	24	164
J4-U	J22-W	A 63R	WIRED SPARE	24	177
J4-V	J22-X	A 63L	WIRED SPARE	24	179
J4-W	J22-U	A 64R	WIRED SPARE	24	175
J4-X	J22-V	A 64L	WIRED SPARE	24	176
J4-Y	J22-P	A 65R	WIRED SPARE	24	167
J4-Z	J22-R	A 65L	WIRED SPARE	24	171
J4-A*			SPARE CONTACT		
J4-B*	J22-S	A 66R	WIRED SPARE	24	173
J4-C*	J22-T	A 66L	WIRED SPARE	24	174
J4-D*	TB13-6A	A 67	LOCK CDU RELAY CONTROL	24	302
J4-E*	TB11-1A	A 68	FINE ALIGN. RELAY CONTROL	24	303
J4-F*	J39-R*	A 69	MODE RELAY COMMON	24	454
J4-G*	TB11-3D	A 70R	800 CPS 28V IPCT HI IMU	20	268
J4-H*	TB11-5D	A 70L	800 CPS 28V IPCT LO IMU	20	269
J4-I*			SPARE CONTACT		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV L.R C	SHEET 59 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J4	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J4-J*	TB11-7A	A 71R	SIN AOG 1X S2 (LO)	24	153
J4-K*	TB11-8A	A 71L	SIN AOG 1X S4 (HI)	24	156
J4-M*	TB11-13A	A 72R	COS AOG 1X S3 (HI)	24	182
J4-N*	TB11-14A	A 72L	COS AOG 1X S1 (LO)	24	184
J4-P*	K48-13	A 73R	SIN AMG 1X S4 (HI)	24	170
J4-Q*	K48-16	A 73L	SIN AMG 1X S2 (LO)	24	172
J4-R*	K48-7	A 74R	COS AMG 1X S3 (HI)	24	165
J4-S*	K48-10	A 74L	COS AMG 1X S1 (LO)	24	168
J4-T*	K44-13	A 75R	SIN AIG 1X S4 (HI)	24	143
J4-U*	K44-16	A 75L	SIN AIG 1X RET S2	24	145
J4-V*	K44-7	A 76R	COS AIG 1X S3 (HI)	24	139
J4-W*	K44-10	A 76L	COS AIG 1X RET S1	24	141
J4-X*	J43-X*	A 77R	ROLL ATT IMP CONTR OUTPUT RT	24	467
J4-Y*	J43-Y*	A 77L	ROLL ATT IMP CONTR OUTPUT LFT	24	468
J4-Z*	J43-Z*	A 77Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	469
J4-AA			SPARE CONTACT		
J4-BB	J43-FF	A 78R	PITCH ATT IMP CONTR OUTPUT UP	24	459
J4-CC	J43-GG	A 78L	PITCH ATT IMP CONTR OUTPUT DN	24	460
J4-DD	J43-HH	A 78Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	461
J4-EE	J43-DD	A 79L	YAW ATT IMP CONTR OUTPUT LEFT	24	462
J4-FF	J43-CC	A 79R	YAW ATT IMP CONTR OUTPUT RT	24	463
J4-GG	J43-EE	A 79Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	464
J4-HH			SPARE CONTACT (DO NOT USE)		
J4-JJ	J43-K	A 80R	+28 VDC FROM NAA (MIN IMPULSE ENABLE)	24	465
J4-KK	J43-L	A 80L	0 VDC FROM NAA	24	466
J4-LL	J33-G	A1119	MASTER CAUTION LIGHT RETURN	20	384
J4-MM	J33-H	A1120	+28 VDC SPACECRAFT	20	385
J4-NN	J33-E	A1121	MASTER WARNING LIGHT RETURN	20	382
J4-PP	J33-F	A1122	+28 VDC SPACECRAFT	20	383

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 60 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
J5	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J5-A			SPARE CONTACT		
J5-B			SPARE CONTACT (DO NOT USE)		
J5-C	K38-10	A 85R	X GYRO ERROR SIG HI	24	146
J5-D	K38-13	A 85L	IMU GIMBAL AND GYRO ERROR SIG LO	24	148
J5-E	TB13-7A	A 86R	IMU IG AND Y GYRO ERROR SIG HI	24	150
J5-F	TB13-8A	A 86L	IMU GIMBAL AND GYRO ERROR SIG LO	24	152
J5-G			SPARE CONTACT		
J5-H			SPARE CONTACT		
J5-J	J22-Y	A 87	ERROR DETECT LIGHT HI	24	181
J5-K	TB16-1	A 261	O VDC (ERROR DETECT LIGHT LO)	20	7
J5-L	TB11-19A	A 81	GIMBAL LOCK SIGNAL HI	20	265
J5-M	TB16-3	A 82	GIMBAL LOCK SIGNAL LO	20	7
J5-N	J42-H*	A 89R	SXT TRUNN MDA OUTPUT HI (TEST)	24	482
J5-P	J42-I*	A 89L	SXT TRUNN MDA OUTPUT LO (TEST)	24	483
J5-R	K38-4	A 90R	Z GYRO ERROR SIG (HI)	24	155
J5-S	K38-7	A 90L	IMU GIMBAL AND GYRO ERROR SIG LO	24	158
J5-T	TB6-14D	A 91R	SCT TRUNN MTR CONTR WIND	24	190
J5-U	TB6-12D	A 91L	SCT TRUNN MTR CONTR WIND	24	194
J5-V	K54-4	A 92R	IMU OG ERROR SIG (HI)	24	166
J5-W	K54-7	A 92L	IMU GIMBAL AND GYRO ERROR SIG LO	24	169
J5-X	J42-J*	A 93R	SXT SHAFT MDA OUTPUT HI (TEST)	24	484
J5-Y	J42-K*	A 93L	SXT SHAFT MDA OUTPUT LO (TEST)	24	485
J5-Z			SPARE CONTACT		
J5-A*	TB6-9D	A 94R	SCT SHAFT MTR CONTR WIND	24	189
J5-B*	TB6-10D	A 94L	SCT SHAFT MTR CONTR WIND	24	188
J5-C*	J22-Z	A 95R	X PIPA ERROR MONITOR	24	183
J5-D*	J22-A*	A 95L	O VDC IMU	24	138
J5-E*	J22-D	A 96R	Y PIPA ERROR MONITOR	24	142
J5-F*	J22-E	A 96L	O VDC IMU	24	144
J5-G*	J22-F	A 97R	Z PIPA ERROR MONITOR	24	147
J5-H*	J22-G	A 97L	O VDC IMU	24	149
J5-I*			SPARE CONTACT		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 61 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J5	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J5-J*	J42-Y	A 98R	TRUNN CDU MDA HI (TEST)	24	490
J5-K*	J42-Z	A 98L	TRUNN CDU MDA LO (TEST)	24	491
J5-M*	J42-F*	A 99R	SHAFT CDU MDA HI (TEST)	24	480
J5-N*	J42-G*	A 99L	SHAFT CDU MDA LO (TEST)	24	481
J5-P*	J42-M*	A 100R	DIRECT SHAFT CONTROL HI (TEST)	24	486
J5-Q*	J42-N*	A 100L	DIRECT SHAFT CONTROL LO (TEST)	24	487
J5-R*	J42-P*	A 101R	DIRECT TRUNN CONTROL HI (TEST)	24	488
J5-S*	J42-Q*	A 101L	DIRECT TRUNN CONTROL LO (TEST)	24	489
J5-T*			SPARE CONTACT		
J5-U*	TB17-5A	A 102R	OG CDU 1X ERROR SIG (HI)	24	278
J5-V*	TB17-6A	A 102L	OG CDU ERROR SIG RET	24	280
J5-W*	TB11-13B	A 103R	COS AOG 1X S3 (HI)	24	182
J5-X*	TB11-14B	A 103L	COS AOG 1X S1 (LO)	24	184
J5-Y*	TB11-8B	A 104R	SIN AOG 1X S4 (HI)	24	156
J5-Z*	TB11-7B	A 104L	SIN AOG 1X S2 (LO)	24	153
J5-AA	TB17-3C	A 105R	MG CDU 1X ERROR SIG (HI)	24	299
J5-BB	TB17-4C	A 105L	MG CDU ERROR SIG RET	24	300
J5-CC	K48-7	A 106R	COS AMG 1X S3 (HI)	24	165
J5-DD	K48-10	A 106L	COS AMG 1X S1 (LO)	24	168
J5-EE	K48-13	A 107R	SIN AMG 1X S4 (HI)	24	170
J5-FF	K48-16	A 107L	SIN AMG 1X S2 (LO)	24	172
J5-GG	TB17-1C	A 108R	IG CDU 1X ERROR SIG S2 (HI)	24	290
J5-HH	TB17-2C	A 108L	IG CDU ERROR SIG RET	24	291
J5-JJ	K59-19	A 109L	COS AIG 1X S3 (HI)	24	139
J5-KK	K59-16	A 109R	COS AIG 1X RET S1	24	141
J5-LL	K59-13	A 110R	SIN AIG 1X S4 (HI)	24	143
J5-MM	K59-10	A 110L	SIN AIG 1X RET S2	24	145
J5-NN	K54-10	A 111R	IMU MG ERROR SIG (HI)	24	160
J5-PP	K54-13	A 111L	IMU GIMBAL AND GYRO ERROR SIG LO	24	163

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 62 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J41	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J41-P*	TB7-6C	A 650L	TRUNNION CDU 1/4X COS LO	24	226
J41-Q*	J31-M*	A 464R	WIRED SPARE	24	368
J41-R*	J31-N*	A 464L	WIRED SPARE	24	369
J41-S*	J31-P*	A 465R	TRUNNION RESOLVER LOAD 1/2X S2	24	370
J41-T*	J31-Q*	A 465L	TRUNNION RESOLVER LOAD 1/2X S4	24	371
J41-U*	J44-T	A 651	WIRED SPARE	24	472
J41-V*	J44-W	A 652	ZERO DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	473
J41-W*	J44-X	A 653	25 DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	474
J41-X*			SPARE CONTACT		
J41-Y*	J24-C*	A 361R	SXT TRUNNION 1X RESOLVER ERROR HI	24	221
J41-Z*	J24-D*	A 361L	SXT TRUNNION 1X RESOLVER ERROR LO	24	223
J41-AA			SPARE CONTACT		
J41-BB	J24-K*	A 364R	WIRED SPARE	22	232
J41-CC	J24-M*	A 364L	WIRED SPARE	22	233
J41-DD	J24-U*	A 368R	WIRED SPARE	22	241
J41-EE	J24-V*	A 368L	WIRED SPARE	22	242
J41-FF	J24-HH	A 371L	SXT SHAFT 1/2X RESOLVER ERROR LO	24	231
J41-GG	J24-BB	A 371R	SXT SHAFT 1/2X RESOLVER LOAD	24	219
J41-HH	J24-AA	A 373W	SXT SHAFT 1/2X RESOLVER ERROR HI	24	216
J41-JJ			SPARE CONTACT		
J41-KK			SPARE CONTACT		
J41-LL			SPARE CONTACT		
J41-MM			SPARE CONTACT		
J41-NN			SPARE CONTACT		
J41-PP			SPARE CONTACT		
J42	61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)				
J42-A			SPARE CONTACT		
J42-B	E63B	A 654	CABLE W57 SHIELD GROUND	20	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J42	61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)				
J42-C			SPARE CONTACT		
J42-D	J43-M	A1143	+28 VDC OPTICS	20	478
J42-E			SPARE CONTACT		
J42-F			SPARE CONTACT		
J42-G			SPARE CONTACT		
J42-H			SPARE CONTACT		
J42-J			SPARE CONTACT		
J42-K			SPARE CONTACT		
J42-L			SPARE CONTACT		
J42-M			SPARE CONTACT		
J42-N			SPARE CONTACT		
J42-P			SPARE CONTACT		
J42-R			SPARE CONTACT		
J42-S			SPARE CONTACT		
J42-T			SPARE CONTACT		
J42-U			SPARE CONTACT		
J42-V			SPARE CONTACT		
J42-W			SPARE CONTACT		
J42-X			SPARE CONTACT		
J42-Y	J5-J*	A 98R	TRUNN CDU MDA HI (TEST)	24	490
J42-Z	J5-K*	A 98L	TRUNN CDU MDA LO (TEST)	24	491
J42-A*	J43-R*	A 655R	WIRED SPARE	24	475
J42-B*	J43-S*	A 655L	WIRED SPARE	24	476
J42-C*	J43-T*	A 656R	WIRED SPARE	24	477
J42-D*	J43-U*	A 656L	WIRED SPARE	24	479
J42-E*	TB12-17	A1112	+28 VDC OPTICS HI	20	63
J42-F*	J5-M*	A 99R	SHAFT CDU MDA HI (TEST)	24	480
J42-G*	J5-N*	A 99L	SHAFT CDU MDA LO (TEST)	24	481
J42-H*	J5-N	A 89R	SXT TRUNN MDA OUTPUT HI (TEST)	24	482
J42-I*	J5-P	A 89L	SXT TRUNN MDA OUTPUT LO (TEST)	24	483
J42-J*	J5-X	A 93R	SXT SHAFT MDA OUTPUT HI (TEST)	24	484
J42-K*	J5-Y	A 93L	SXT SHAFT MDA OUTPUT LO (TEST)	24	485

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J42	61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)				
J42-M*	J5-P*	A 100R	DIRECT SHAFT CONTROL HI (TEST)	24	486
J42-N*	J5-Q*	A 100L	DIRECT SHAFT CONTROL LO (TEST)	24	487
J42-P*	J5-R*	A 101R	DIRECT TRUNN CONTROL HI (TEST)	24	488
J42-Q*	J5-S*	A 101L	DIRECT TRUNN CONTROL LO (TEST)	24	489
J42-R*			SPARE CONTACT		
J42-S*			SPARE CONTACT		
J42-T*	TB17-18C	A 688R	TRUNNION CDU 1/4 X SIN HI	24	228
J42-U*	TB17-17C	A 688L	TRUNNION CDU 1/4 X SIN LO	24	230
J42-V*			SPARE CONTACT		
J42-W*	J31-V*	A 469R	TRUNNION CDU 16X SIN HI	24	376
J42-X*	J31-U*	A 469L	TRUNNION CDU 16X SIN LO	24	375
J42-Y*	J31-X*	A 470R	TRUNNION CDU 16X COS HI	24	378
J42-Z*	J31-W*	A 470L	TRUNNION CDU 16X COS LO	24	377
J42-AA	J24-A*	A 360R	SXT AT 64X RESOLVER COSINE HI	24	215
J42-BB	J24-B*	A 360L	SXT AT 64X RESOLVER COSINE LO	24	218
J42-CC	J24-Y	A 359L	SXT AT 64X RESOLVER SINE LO	24	243
J42-DD	J24-Z	A 359R	SXT AT 64X RESOLVER SINE HI	24	244
J42-EE	J24-R*	A 366L	SXT AS 16X RESOLVER COSINE HI	24	240
J42-FF	J24-Q*	A 366R	SXT AS 16X RESOLVER COSINE LO	24	239
J42-GG	J24-N*	A 365R	SXT AS 16X RESOLVER SINE HI	24	235
J42-HH	J24-P*	A 365L	SXT AS 16X RESOLVER SINE LO	24	237
J42-JJ			SPARE CONTACT		
J42-KK			SPARE CONTACT		
J42-LL			SPARE CONTACT		
J42-MM			SPARE CONTACT		
J42-NN			SPARE CONTACT		
J42-PP			SPARE CONTACT		
J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				
J43-A			SPARE CONTACT		
J43-B			SPARE CONTACT		
J43-C			SPARE CONTACT		
J43-D			SPARE CONTACT		
J43-E	TB6-3D	A105HW	400 CPS VARIABLE LAMP SUPPLY HI	20	206
J43-F	K3-10	A1113	IMU POWER 28 VDC RETURN (0 VDC)	20	495
J43-G	E65B	A 659	OPTICS SHIELD GROUND (FROM GNIC)	20	3
J43-H			SPARE CONTACT		
J43-J			SPARE CONTACT		
J43-K	J4-JJ	A 80R	+28 VDC FROM NAA (MIN IMPULSE ENABLE)	24	465
J43-L	J4-KK	A 80L	0 VDC FROM NAA	24	466
J43-M	J42-D	A1143	+28 VDC OPTICS	20	478
J43-N	P2-B*	A1153	SPACE CRAFT LAMP TEST	20	498
J43-P	TB12-40	A 661	OPTICS 28 VDC HI (FROM PSA)	20	1
J43-R			SPARE CONTACT		
J43-S	K8-12	A 662W	6 VOLT 400 CPS LO	22	499
J43-T			SPARE CONTACT		
J43-U	K8-10	A1133W	6 VOLT 400 CPS LO	20	7
J43-V	TB14-8	A 664	OPTICS POWER 28 VDC RETURN	20	7
J43-W	P6-B	A 665	SXT POWER SWITCH FROM COMPUTER	24	501
J43-X	J35-Q*	A 559	WIRED SPARE	24	424
J43-Y	TB13-13F	A 666W	800 CPS 5 PERCENT SXT POWER IN HI	22	185
J43-Z	P6-D	A 667	26V 400 CPS	20	502
J43-A*	E65B	A 668	CABLE W58 SHIELD GROUND	20	3
J43-B*	P6-W	A 669	STEP DOWN R	24	492
J43-C*	K8-3	A 670	M AND DV AND INTEGRAL LIGHTING PWR 28 VDC HI	20	250
J43-D*	P6-P	A 671	STEP UP R	24	493
J43-E*	P2-E	A 672	0.5V 400 CPS ZERO PHASE	24	494
J43-F*	P2-H	A 673	0.5V 400 CPS PI PHASE	24	496
J43-G*	J2-R*	A 31W	IRIG TEMP BRIDGE AMP PIN 6	24	121
J43-H*	J2-S*	A 32W	ACCEL TEMP BRIDGE AMP PIN 5	24	122
J43-I*	P6-Z	A 674	MARK BUTTON TO COMPUTER (WIPER)	20	497

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K64	RELAY (1015837-001)				
K64-10	J10-P*	A 240R	SIN AMG 16X TO CDU	24	49
K64-10	K49-13	A 877L	CDU SIN AMG 16 X HI	24	49
K64-11	K49-14	A 878L	MG 16 X SIN HI	24	49
K64-11	K61-5	A 926L	MG 16 X SIN HI	24	49
K64-12			SPARE N.O. CONTACT		
K64-13	J10-Q*	A 240L	SIN AMG 16X S4	24	51
K64-13	K49-10	A 877R	CDU SIN AMG 16 X LO	24	51
K64-14	K49-11	A 878R	MG 16 X SIN LO	24	51
K64-14	K61-8	A 926R	MG 16 X SIN LO	24	51
K64-15			SPARE N.O. CONTACT		
K64-16			SPARE WIPER CONTACT		
K64-17			SPARE N.C. CONTACT		
K64-18			SPARE N.O. CONTACT		
K64-19			SPARE WIPER CONTACT		
K64-20			SPARE N.C. CONTACT		
	K65 RELAY (1015837-001)				
K65-1	J9-Y	A 193	OG CDU TEST COMMAND	20	569
K65-2	K66-2	A 939	27 VDC RELAY AND LAMP POWER LO	20	355
K65-2	T87-17E	A 940	27 VDC RELAY AND LAMP POWER LO	20	355
K65-3	J2-B*	A 23L	CARD POINT SIN 16X HI	24	105
K65-3	K61-3	A 925L	IG 16 X SIN HI	24	105
K65-4	J32-U*	A 490L	OG 16X SINE HI	24	45
K65-5	K68-14	A 941L	OG 16 X SIN HI	24	45
K65-6	J2-A*	A 23R	CARD POINT SIN 16X LO	24	103
K65-6	K61-6	A 925R	IG 16 X SIN LO	24	103
K65-7	J32-T*	A 490R	OG 16X SINE LO	24	47
K65-8	K68-11	A 941R	OG 16 X SIN LO	24	47
K65-9	J2-D*	A 24L	CARD POINT COS 16X LO	24	110

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K65	RELAY (1015837-001)				
K65-9	K61-9	A 927L	CARD POINT COS 16 X LO	24	110
K65-10	J32-S*	A 489L	OG 16X COSINE LO	24	57
K65-11	K67-5	A 942L	OG COS 16 X LO	24	57
K65-12	J2-C*	A 24R	CARD POINT COS 16X HI	24	108
K65-12	K61-12	A 927R	IG 16 X COS HI	24	108
K65-13	J32-R*	A 489R	OG 16X COSINE HI	24	55
K65-14	K67-8	A 942R	OG 16 X COS HI	24	55
K65-15	K66-1	A 938	K66 COIL HI (K308 MECH)	20	603
K65-16	K61-16	A1094	27 VDC RELAY AND LAMP POWER HI	20	525
K65-17			SPARE N.C. CONTACT		
K65-18			SPARE N.O. CONTACT		
K65-19			SPARE WIPER CONTACT		
K65-20			SPARE N.C. CONTACT		
	K66 RELAY (1015837-001)				
K66-1	K65-15	A 938	K66 COIL HI (K308 MECH)	20	603
K66-2	K65-2	A 939	27 VDC RELAY AND LAMP POWER LO	20	355
K66-3	J2-E*	A 25L	CARD POINT SIN 1X HI	24	111
K66-3	K62-3	A 929L	IG 1 X SIN HI	24	111
K66-4	J32-N*	A 487L	OG 1X SINE HI	24	156
K66-5	K67-11	A 943L	CDU SIN AOG 1 X HI	24	156
K66-6	J2-F*	A 25R	CARD POINT SIN 1X LO	24	112
K66-6	K62-6	A 929R	IG 1 X SIN LO	24	112
K66-7	J32-M*	A 487R	OG 1X SINE LO	24	151
K66-8	K67-14	A 943R	CDU SIN AOG 1 X LO	24	151
K66-9	J2-H*	A 26L	CARD POINT COS 1X LO	24	116
K66-9	K62-9	A 931L	IG 1 X COS LO	24	116
K66-10	J32-K*	A 486L	OG 1X COSINE LO	24	184
K66-11	K67-17	A 944L	CDU COS AOG 1 X LO	24	184

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K66	RELAY (1015837-001)				
K66-12	J2-G*	A 26R	CARD POINT COS 1X HI	24	114
K66-12	K62-12	A 931R	MG 1 X COS HI	24	114
K66-13	J32-J*	A 486R	OG 1X COSINE HI	24	180
K66-14	K67-20	A 944R	CDU COS AOG 1 X HI	24	180
K66-15			SPARE N.O. CONTACT		
K66-16			SPARE WIPER CONTACT		
K66-17			SPARE N.C. CONTACT		
K66-18			SPARE N.O. CONTACT		
K66-19			SPARE WIPER CONTACT		
K66-20			SPARE N.C. CONTACT		
	K67 RELAY (1015837-001)				
K67-1	K51-1	A 882	27 VDC RELAY AND LAMP POWER HI	20	417
K67-1	K68-1	A 945	27 VDC RELAY AND LAMP POWER HI	20	417
K67-2	K68-2	A 946	27 VDC RELAY AND LAMP POWER LO	20	355
K67-2	TB7-16C	A 947	27 VDC RELAY AND LAMP POWER LO	20	355
K67-3			SPARE N.O. CONTACT		
K67-4	J10-U*	A 242L	COS AOG 16X TO CDU	24	57
K67-4	K53-7	A 894L	CDU COS AOG 16 X LO	24	57
K67-5	K53-8	A 895L	OG 16 X COS LO	24	57
K67-5	K65-11	A 942L	OG 16 X COS LO	24	57
K67-6			SPARE N.O. CONTACT		
K67-7	J10-T*	A 242R	COS AOG 16X S3 (HI)	24	55
K67-7	K53-4	A 894R	CDU COS AOG 16 X HI	24	55
K67-8	K53-5	A 895R	OG 16 X COS HI	24	55
K67-8	K65-14	A 942R	OG 16 X COS HI	24	55
K67-9			SPARE N.O. CONTACT		
K67-10	J22-K	A 311L	CDU SIN AOG 1X HI	24	156
K67-10	TB11-8D	A 948	CDU SIN AOG 1 X HI	24	156

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K67	RELAY (1015837-001)				
K67-11	K52-17	A 893L	CDU SIN AOG 1 X HI	24	156
K67-11	K66-5	A 943L	CDU SIN AOG 1 X HI	24	156
K67-12			SPARE N.O. CONTACT		
K67-13	J22-H	A 311R	CDU SIN AOG 1X LO	24	151
K67-13	K52-13	A 891	CDU SIN AOG 1 X LO	24	151
K67-14	K52-14	A 893R	CDU SIN AOG 1 X LO	24	151
K67-14	K66-8	A 943R	CDU SIN AOG 1 X LO	24	151
K67-15			SPARE N.O. CONTACT		
K67-16	J22-Z*	A 323L	CDU COS AOG 1X LO	24	184
K67-16	TB11-14D	A 949	CDU COS AOG 1 X LO	24	184
K67-17	K52-11	A 890L	CDU COS AOG 1 X LO	24	184
K67-17	K66-11	A 944L	CDU COS AOG 1 X LO	24	184
K67-18			SPARE N.O. CONTACT		
K67-19	J22-X*	A 323R	CDU COS AOG 1X HI	24	180
K67-19	K52-7	A 889	CDU COS AOG 1 X HI	24	180
K67-20	K52-8	A 890R	CDU COS AOG 1 X HI	24	180
K67-20	K66-14	A 944R	CDU COS AOG 1 X HI	24	180
	K68 RELAY (1015837-001)				
K68-1	J34-Z	A 528	FOR GSE USE ONLY	20	417
K68-1	K67-1	A 945	27 VDC RELAY AND LAMP POWER HI	20	417
K68-2	K51-2	A 883	27 VDC RELAY AND LAMP POWER LO	20	355
K68-2	K67-2	A 946	27 VDC RELAY AND LAMP POWER LO	20	355
K68-3	K68-6	AA 32	OG CDU 16 X ERROR SIGNAL COM	24	606
K68-4	J26-FF	A 416L	OG CDU 16X ERROR SIGNAL LO	24	276
K68-5	J32-Q*	A 488L	OG 16X ERROR LO	24	276
K68-6	K68-3	AA 32	OG CDU 16 X ERROR SIGNAL COM	24	606
K68-7	J26-EE	A 416R	OG CDU 16X ERROR SIGNAL HI	24	275
K68-8	J32-P*	A 488R	OG 16X ERROR HI	24	275

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P4	27 PIN CONNECTOR (1016059-103) BLUE KEYED NORMAL				
P4-A			SPARE CONTACT		
P4-B			SPARE CONTACT		
P4-C			SPARE CONTACT		
P4-D			SPARE CONTACT		
P4-E			SPARE CONTACT		
P4-F	P1-U	A 955	CONT TEST ENABLE (28 VDC)	24	550
P4-F	P4-J	AA 43	CONT TEST ENABLE (28 VDC)	24	550
P4-G			SPARE CONTACT		
P4-H			SPARE CONTACT		
P4-J	P4-F	AA 43	CONT TEST ENABLE (28 VDC)	24	550
P4-J	P4-K	AA 44	CONT TEST ENABLE (28 VDC)	24	550
P4-K	P4-J	AA 44	CONT TEST ENABLE (28 VDC)	24	550
P4-K	P4-T	AA 45	CONT TEST ENABLE (28 VDC)	24	550
P4-L			SPARE CONTACT		
P4-M			SPARE CONTACT		
P4-N			SPARE CONTACT		
P4-P			SPARE CONTACT		
P4-R			SPARE CONTACT		
P4-S			SPARE CONTACT		
P4-T	P4-K	AA 45	CONT TEST ENABLE (28 VDC)	24	550
P4-T	P4-U	AA 46	CONT TEST ENABLE (28 VDC)	24	550
P4-U	P4-T	AA 46	CONT TEST ENABLE (28 VDC)	24	550
P4-U	P4-X	AA 47	CONT TEST ENABLE (28 VDC)	24	550
P4-V			SPARE CONTACT		
P4-W			SPARE CONTACT		
P4-X	P6-D*	A 961	CONT TEST ENABLE (28 VDC)	24	550
P4-X	P4-U	AA 47	CONT TEST ENABLE (28 VDC)	24	550
P4-Y			SPARE CONTACT		
P4-Z			SPARE CONTACT		
P4-A*			SPARE CONTACT		
P4-B*			SPARE CONTACT		
P4-C*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P4	27 PIN CONNECTOR (1016059-103) BLUE KEYED NORMAL				
P4-D*	K8-2	A 962	28 VDC HI, M AND DV	24	609
	P6	27 PIN CONNECTOR (1016059-105) BLUE KEYED X			
P6-A	J43-V*	A 676	ZERO OPTICS FROM COMPUTER	20	500
P6-A	P6-L	AA128	ZERO OPTICS FROM COMPUTER	24	500
P6-B	J43-W	A 665	SXT POWER SWITCH FROM COMPUTER	24	501
P6-C			SPARE CONTACT		
P6-D	J43-Z	A 667	26 V 400 CPS	20	502
P6-D	P6-G	AA 49	26 V 400 CPS	24	502
P6-E	J44-Y	A 689	M AND DV SLEW CONTROL	24	516
P6-E	P6-H	AA 48	M AND DV SLEW CONTROL	24	516
P6-F			SPARE CONTACT		
P6-G	P6-D	AA 49	26 V 400 CPS	24	502
P6-G	P6-R	AA 50	26 V 400 CPS	24	502
P6-H	P6-E	AA 48	M AND DV SLEW CONTROL	24	516
P6-J			SPARE CONTACT		
P6-K			SPARE CONTACT		
P6-L	P6-A	AA128	ZERO OPTICS FROM COMPUTER	24	500
P6-M	P6-N	AA 52	6 VOLT 400 CPS HI	24	608
P6-N	K8-13	A 963	6 VOLT 400 CPS HI	24	608
P6-N	P6-M	AA 52	6 VOLT 400 CPS HI	24	608
P6-P	J43-D*	A 671	STEP UP R	24	493
P6-R	P6-G	AA 50	26 V 400 CPS	24	502
P6-R	P6-S	AA 53	26 V 400 CPS	24	502
P6-S	P6-R	AA 53	26 V 400 CPS	24	502
P6-S	P6-V	AA 54	26 V 400 CPS	24	502
P6-T			SPARE CONTACT		
P6-U			SPARE CONTACT		
P6-V	P6-S	AA 54	26 V 400 CPS	24	502

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P6	27 PIN CONNECTOR (1016059-105) BLUE KEYED X				
P6-V	P6-Y	AA 55	26 V 400 CPS	24	502
P6-W	J43-B*	A 669	STEP DOWN R	24	492
P6-X			SPARE CONTACT		
P6-Y	P6-V	AA 55	26 V 400 CPS	24	502
P6-Z	J43-I*	A 674	MARK BUTTON TO COMPUTER (WIPER)	20	497
P6-Z	P6-A*	AA122	MARK BUTTON TO COMPUTER (WIPER)	24	497
P6-A*	P6-Z	AA122	MARK BUTTON TO COMPUTER (WIPER)	24	497
P6-B*	J44-R	A1154	SPACECRAFT ZERO VDC	20	511
P6-C*			SPARE CONTACT		
P6-D*	P4-X	A 961	CONT TEST ENABLE (28 VDC)	24	550
P6-D*	P8-D*	A 964	CONT TEST ENABLE (28 VDC)	24	550
	P8	27 PIN CONNECTOR (1016059-110) RED KEYED W			
P8-A			SPARE CONTACT		
P8-B			SPARE CONTACT		
P8-C			SPARE CONTACT		
P8-D			SPARE CONTACT		
P8-E			SPARE CONTACT		
P8-F			SPARE CONTACT		
P8-G			SPARE CONTACT		
P8-H			SPARE CONTACT		
P8-J			SPARE CONTACT		
P8-K	J8-M*	A 170	STEPPER TENS ONE	24	545
P8-K	P8-L	AA 64	STEPPER TENS ONE	24	545
P8-L	P8-M	AA 56	STEPPER TENS ONE	24	545
P8-L	P8-K	AA 64	STEPPER TENS ONE	24	545
P8-M	P8-L	AA 56	STEPPER TENS ONE	24	545
P8-M	P8-N	AA 57	STEPPER TENS ONE	24	545
P8-N	P8-M	AA 57	STEPPER TENS ONE	24	545

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P8	27 PIN CONNECTOR (1016059-110) RED KEYED W				
P8-N	P8-P	AA 58	STEPPER TENS ONE	24	545
P8-P	P8-N	AA 58	STEPPER TENS ONE	24	545
P8-P	P8-R	AA 59	STEPPER TENS ONE	24	545
P8-R	P8-P	AA 59	STEPPER TENS ONE	24	545
P8-R	P8-S	AA 60	STEPPER TENS ONE	24	545
P8-S	P8-R	AA 60	STEPPER TENS ONE	24	545
P8-S	P8-T	AA 61	STEPPER TENS ONE	24	545
P8-T	P8-S	AA 61	STEPPER TENS ONE	24	545
P8-T	P8-U	AA 62	STEPPER TENS ONE	24	545
P8-U	P8-T	AA 62	STEPPER TENS ONE	24	545
P8-U	P8-V	AA 63	STEPPER TENS ONE	24	545
P8-V	P8-U	AA 63	STEPPER TENS ONE	24	545
P8-W	J8-N*	A 171	STEPPER TENS TWO	24	546
P8-W	P8-X	AA 72	STEPPER TENS TWO	24	546
P8-X	P8-Y	AA 65	STEPPER TENS TWO	24	546
P8-X	P8-W	AA 72	STEPPER TENS TWO	24	546
P8-Y	P8-X	AA 65	STEPPER TENS TWO	24	546
P8-Y	P8-Z	AA 66	STEPPER TENS TWO	24	546
P8-Z	P8-Y	AA 66	STEPPER TENS TWO	24	546
P8-Z	P8-A*	AA 67	STEPPER TENS TWO	24	546
P8-A*	P8-Z	AA 67	STEPPER TENS TWO	24	546
P8-A*	P8-B*	AA 68	STEPPER TENS TWO	24	546
P8-B*	P8-A*	AA 68	STEPPER TENS TWO	24	546
P8-B*	P8-C*	AA 69	STEPPER TENS TWO	24	546
P8-C*	P9-A	A 965	STEPPER TENS TWO	24	546
P8-C*	P8-B*	AA 69	STEPPER TENS TWO	24	546
P8-D*	P6-D*	A 964	CONT TEST ENABLE (28 VDC)	24	550
P8-D*	P10-D*	A 966	CONT TEST ENABLE (28 VDC)	24	550

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A190	E91B	A 190A	SHIELD GROUND (J8 CONNECTOR END)	22	3
SHLD A191	E91B	A 191A	SHIELD GROUND (J8 CONNECTOR END)	22	3
SHLD A232	E32B	A 232A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A233	E32B	A 233A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A234	E32B	A 234A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A236	E32B	A 236A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A237	E32B	A 237A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A238	E32B	A 238A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A239	E32B	A 239A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A240	E32B	A 240A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A241	E33B	A 241A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A242	E33B	A 242A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A243	E33B	A 243A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A244	E33B	A 244A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A249	E34B	A 249A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A251	E34B	A 251A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A255	E34B	A 255A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A256	E34B	A 256A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A257	E34B	A 257A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A258	E34B	A 258A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A259	E34B	A 259A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A260	E34B	A 260A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A268	E36B	A 268A	SHIELD GROUND (J21 CONNECTOR END)	22	3
SHLD A270	E93B	A 270A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A272	E94B	A 272A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A273	E94B	A 273A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A277	E57B	A 277A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A278	E57B	A 278A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A280	E34B	A 280A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A281	E34B	A 281A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A291	E35B	A 291A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A292	E35B	A 292A	SHIELD GROUND (J11 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A293	E35B	A 293A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A296	E35B	A 296A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A311	E37B	A 311A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A313	E36B	A 313A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A314	E36B	A 314A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A315	E36B	A 315A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A316	E36B	A 316A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A317	E37B	A 317A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A318	E37B	A 318A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A319	E37B	A 319A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A320	E37B	A 320A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A321	E37B	A 321A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A323	E37B	A 323A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A324	E38B	A 324A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A325	E38B	A 325A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A326	E38B	A 326A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A327	E38B	A 327A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A328	E38B	A 328A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A329	E38B	A 329A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A330	E38B	A 330A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A331	E89B	A 331A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A334	E89B	A 334A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A336	E89B	A 336A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A337	E89B	A 337A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A339	E90B	A 339A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A340	E90B	A 340A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A341	E90B	A 341A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A342	E90B	A 342A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A343	E90B	A 343A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A344	E90B	A 344A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A345	E90B	A 345A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A346	E90B	A 346A	SHIELD GROUND (J23 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A347	E90B	A 347A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A349	E42B	A 349A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A350	E41B	A 350A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A351	E41B	A 351A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A352	E41B	A 352A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A353	E93B	A 353A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A359	E93B	A 359A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A360	E41B	A 360A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A361	E41B	A 361A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A362	E41B	A 362A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A363	E41B	A 363A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A364	E41B	A 364A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A365	E41B	A 365A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A366	E42B	A 366A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A368	E42B	A 368A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A369	E42B	A 369A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A370	E42B	A 370A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A371	E42B	A 371A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A372	E42B	A 372A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A373	E93B	A 373A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A375	E42B	A 375A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A377	E44B	A 377A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A378	E44B	A 378A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A379	E44B	A 379A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A380	E44B	A 380A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A383	E43B	A 383A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A385	E43B	A 385A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A386	E43B	A 386A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A388	E43B	A 388A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A394	E44B	A 394A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A395	E44B	A 395A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A398	J26-S	A 398A	SHIELD FEEDTHRU (J26 CONNECTOR END)	22	293

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A398	J33-C	A 398B	SHIELD FEEDTHRU (J33 CONNECTOR END)	22	293
SHLD A399	J26-A	A 399A	SHIELD FEEDTHRU (J26 CONNECTOR END)	22	272
SHLD A399	J38-C	A 399B	SHIELD FEEDTHRU (J38 CONNECTOR END)	22	272
SHLD A400	J26-T	A 400A	SHIELD FEEDTHRU (J26 CONNECTOR END)	22	294
SHLD A400	J32-C	A 400B	SHIELD FEEDTHRU (J32 CONNECTOR END)	22	294
SHLD A401	E45B	A 401A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A402	E45B	A 402A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A405	E45B	A 405A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A407	E46B	A 407A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A408	E46B	A 408A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A409	E46B	A 409A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A410	E46B	A 410A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A411	E46B	A 411A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A412	E46B	A 412A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A413	E46B	A 413A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A414	E47B	A 414A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A415	E47B	A 415A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A416	E47B	A 416A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A417	E47B	A 417A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A418	E47B	A 418A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A419	E47B	A 419A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A428	E48B	A 428A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A436	E48B	A 436A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A437	E48B	A 437A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A438	E48B	A 438A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A439	E48B	A 439A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A449	E48B	A 449A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A459	E50B	A 459A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A460	E50B	A 460A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A461	E50B	A 461A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A462	E50B	A 462A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A463	E50B	A 463A	SHIELD GROUND (J31 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-1D	J33-LL	A 518R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-1E	TB6-1D		INTERNAL BUS		206
TB6-1E	TB6-1F		INTERNAL BUS		206
TB6-1E	J37-KK	A 583R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-1F	TB6-1E		INTERNAL BUS		206
TB6-1F	TB6-2F	AA107	6 VOLT 400 CPS LAMP POWER HI	20	206
TB6-2A	TB6-2B		INTERNAL BUS		206
TB6-2A	TB6-3A	AA127	400 CPS VARIABLE ILLUMINATION POWER	20	206
TB6-2B	TB6-2A		INTERNAL BUS		206
TB6-2B	TB6-2C		INTERNAL BUS		206
TB6-2B	J24-L	A 353R	400 CPS VARIABLE ILLUMINATION POWER	24	206
TB6-2C	TB6-2B		INTERNAL BUS		206
TB6-2C	TB6-2D		INTERNAL BUS		206
TB6-2C	R1-2	A1135	6 VOLT 400 CPS HI	20	206
TB6-2D	TB6-2C		INTERNAL BUS		206
TB6-2D	TB6-2E		INTERNAL BUS		206
TB6-2D	J34-G*	A 532R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-2E	TB6-2D		INTERNAL BUS		206
TB6-2E	TB6-2F		INTERNAL BUS		206
TB6-2E	J31-NN	A 478R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-2E	TB6-2E		INTERNAL BUS		206
TB6-2F	TB6-1F	AA107	6 VOLT 400 CPS LAMP POWER HI	20	206
TB6-3A	TB6-3B		INTERNAL BUS		206
TB6-3A	TB6-2A	AA127	400 CPS VARIABLE ILLUMINATION POWER	20	206
TB6-3B	TB6-3A		INTERNAL BUS		206
TB6-3B	TB6-3C		INTERNAL BUS		206
TB6-3B	J39-V*	A 611W	VARIABLE ILLUM AND IND LAMP PWR 400 CPS HI	20	206
TB6-3C	TB6-3B		INTERNAL BUS		206
TB6-3C	TB6-3D		INTERNAL BUS		206
TB6-3C	J39-W*	A 612W	400 CPS VARIABLE LAMP SUPPLY HI (FROM D AND C	20	206
TB6-3D	TB6-3C		INTERNAL BUS		206
TB6-3D	TB6-3E		INTERNAL BUS		206

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-3D	J43-E	A105AW	400 CPS VARIABLE LAMP SUPPLY HI (FROM D AND C	20	206
TB6-3E	TB6-3D		INTERNAL BUS		206
TB6-3E	TB6-3F		INTERNAL BUS		206
TB6-3E	R2-2	A1136	6 VOLT 400 CPS HI	20	206
TB6-3F	TB6-3E		INTERNAL BUS		206
TB6-4A	TB6-4B		INTERNAL BUS		7
TB6-4A	J23-S*	A 347L	LAMP VOLTAGE	24	7
TB6-4B	TB6-4A		INTERNAL BUS		7
TB6-4B	TB6-4C		INTERNAL BUS		7
TB6-4B	J38-MM	A 603L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4C	TB6-4B		INTERNAL BUS		7
TB6-4C	TB6-4D		INTERNAL BUS		7
TB6-4C	J32-MM	A 497L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4D	TB6-4C		INTERNAL BUS		7
TB6-4D	TB6-4E		INTERNAL BUS		7
TB6-4D	J33-MM	A 518L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4E	TB6-4D		INTERNAL BUS		7
TB6-4E	TB6-4F		INTERNAL BUS		7
TB6-4E	J37-LL	A 583L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4F	TB6-4E		INTERNAL BUS		7
TB6-4F	TB6-5F	AA108	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-5A	TB6-5B		INTERNAL BUS		7
TB6-5A	TB6-6A	AA149	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-5B	TB6-5A		INTERNAL BUS		7
TB6-5B	TB6-5C		INTERNAL BUS		7
TB6-5B	J24-M	A 353L	6 VOLT 400 CPS LO	24	7
TB6-5C	TB6-5B		INTERNAL BUS		7
TB6-5C	TB6-5D		INTERNAL BUS		7
TB6-5C	J32-E	A1130	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-5D	TB6-5C		INTERNAL BUS		7
TB6-5D	TB6-5E		INTERNAL BUS		7
TB6-5D	J34-H*	A 532L	6 VOLT 400 CPS LAMP POWER LO	22	7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-5E	TB6-5D		INTERNAL BUS		7
TB6-5E	TB6-5F		INTERNAL BUS		7
TB6-5E	J31-PP	A 478L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-5F	TB6-5E		INTERNAL BUS		7
TB6-5F	TB6-4F	AA108	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-6A	TB6-6B		INTERNAL BUS		7
TB6-6A	TB6-5A	AA149	6 V 400 CPS LAMP POWER LO	20	7
TB6-6B	TB6-6A		INTERNAL BUS		7
TB6-6B	TB6-6C		INTERNAL BUS		7
TB6-6B	K8-8	A 760	6 VOLT 400 CPS LAMP POWER LO	24	7
TB6-6C	TB6-6B		INTERNAL BUS		7
TB6-6C	TB6-6D		INTERNAL BUS		7
TB6-6C	TB8-6	A1105	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-6D	TB6-6C		INTERNAL BUS		7
TB6-6D	TB6-6E		INTERNAL BUS		7
TB6-6D	J31-E	A1128	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-6E	TB6-6D		INTERNAL BUS		7
TB6-6E	TB6-6F		INTERNAL BUS		7
TB6-6E	J47-J	A1191	400 CPS SHIELD GROUND BUS	20	7
TB6-6F	TB6-6E		INTERNAL BUS		7
TB6-6F	J47-L	A1195	400 CPS LO BUS	20	7
TB6-7A	TB6-7B		INTERNAL BUS		355
TB6-7A	TB7-15B	A 970	RELAY AND LAMP POWER LO	20	355
TB6-7B	TB6-7A		INTERNAL BUS		355
TB6-7B	TB6-7C		INTERNAL BUS		355
TB6-7B	TB1-1	A 969	27 VDC RELAY AND LAMP POWER GROUND	20	355
TB6-7C	TB6-7B		INTERNAL BUS		355
TB6-7C	TB6-7D		INTERNAL BUS		355
TB6-7C	K8-11	A 762	RELAY AND LAMP POWER LO	20	355
TB6-7D	TB6-7C		INTERNAL BUS		355
TB6-7D	TB6-7E		INTERNAL BUS		355
TB6-7D	K2-X02	A 733	RELAY AND LAMP POWER LO	20	355

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-7E	TB6-7D		INTERNAL BUS		355
TB6-7E	TB6-7F		INTERNAL BUS		355
TB6-7E	K3-11	A 737	RELAY AND LAMP POWER LO	20	355
TB6-7F	TB6-7E		INTERNAL BUS		355
TB6-7F	TB6-8F	AA109	RELAY AND LAMP POWER LO	20	355
TB6-8A	TB6-8B		INTERNAL BUS		355
TB6-8A	K4-11	A 742	RELAY AND LAMP POWER LO	20	355
TB6-8B	TB6-8A		INTERNAL BUS		355
TB6-8B	TB6-8C		INTERNAL BUS		355
TB6-8B	K5-11	A 746	RELAY AND LAMP POWER LO	20	355
TB6-8C	TB6-8B		INTERNAL BUS		355
TB6-8C	TB6-8D		INTERNAL BUS		355
TB6-8D	TB6-8C		INTERNAL BUS		355
TB6-8D	TB6-8E		INTERNAL BUS		355
TB6-8E	TB6-8D		INTERNAL BUS		355
TB6-8E	TB6-8F		INTERNAL BUS		355
TB6-8F	TB6-8E		INTERNAL BUS		355
TB6-8F	TB6-7F	AA109	RELAY AND LAMP POWER LO	20	189
TB6-9A	TB6-9B		INTERNAL BUS		189
TB6-9B	TB6-9A		INTERNAL BUS		189
TB6-9B	TB6-9C		INTERNAL BUS		189
TB6-9B	J35-J	A 277Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
TB6-9C	TB6-9B		INTERNAL BUS		189
TB6-9C	TB6-9D		INTERNAL BUS		189
TB6-9C	J23-D*	A 342Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
TB6-9D	TB6-9C		INTERNAL BUS		189
TB6-9D	TB6-9E		INTERNAL BUS		189
TB6-9D	J5-A*	A 94R	SCT SHAFT MTR CONTR WIND	24	189
TB6-9E	TB6-9D		INTERNAL BUS		189
TB6-9E	TB6-9F		INTERNAL BUS		189
TB6-9F	TB6-9E		INTERNAL BUS		188
TB6-10A	TB6-10B		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB10	TERMINAL BOARD BUS AGC ZERO VDC (1900837)				
TB10-16	TB10-15		SOLID BUS-AGE ZERO VDC		7
	TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB11-1A	TB11-1B		INTERNAL BUS		303
TB11-1A	J4-E*	A 68	FINE ALIGN. RELAY CONTROL	24	303
TB11-1B	TB11-1A		INTERNAL BUS		303
TB11-1B	TB11-1C		INTERNAL BUS		303
TB11-1B	J27-BB	A 441	FINE ALIGN RELAY CONTROL	24	303
TB11-1C	TB11-1B		INTERNAL BUS		303
TB11-1C	TB11-1D		INTERNAL BUS		303
TB11-1C	J39-EE	A 614	FINE ALIGN RELAY CONTROL (K-4)	24	303
TB11-1D	TB11-1C		INTERNAL BUS		303
TB11-1D	TB11-1E		INTERNAL BUS		303
TB11-1E	TB11-1D		INTERNAL BUS		303
TB11-1E	TB11-1F		INTERNAL BUS		303
TB11-1F	TB11-1E		INTERNAL BUS		268
TB11-2A	TB11-2B		INTERNAL BUS		268
TB11-2A	TB11-3A	AA116	FINE ALIGN RELAY CONTROL	20	268
TB11-2B	TB11-2A		INTERNAL BUS		268
TB11-2B	TB11-2C		INTERNAL BUS		268
TB11-2B	J32-PP	A 499W	28 V 800 CPS 0 DEG 1 PERCENT LO	24	268
TB11-2C	TB11-2B		INTERNAL BUS		268
TB11-2C	TB11-2D		INTERNAL BUS		268
TB11-2C	J32-NN	A 498W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-2D	TB11-2C		INTERNAL BUS		268
TB11-2D	TB11-2E		INTERNAL BUS		268
TB11-2D	J33-PP	A 520W	28 V 800 CPS 0 DEG 1 PERCENT LO	24	268
TB11-2E	TB11-2D		INTERNAL BUS		268
TB11-2E	TB11-2F		INTERNAL BUS		268

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-2E	J33-NN	A 519W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-2F	TB11-2E		INTERNAL BUS		268
TB11-2F	J38-PP	A 605W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-3A	TB11-3B		INTERNAL BUS		268
TB11-3A	TB11-2A	AA116	FINE ALIGN RELAY CONTROL	20	268
TB11-3B	TB11-3A		INTERNAL BUS		268
TB11-3B	TB11-3C		INTERNAL BUS		268
TB11-3B	J38-NN	A 604W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-3C	TB11-3B		INTERNAL BUS		268
TB11-3C	TB11-3D		INTERNAL BUS		268
TB11-3D	TB11-3C		INTERNAL BUS		268
TB11-3D	TB11-3E		INTERNAL BUS		268
TB11-3D	J4-G*	A 70R	800 CPS 28 V 1 PCT HI IMU	20	268
TB11-3E	TB11-3D		INTERNAL BUS		268
TB11-3E	TB11-3F		INTERNAL BUS		268
TB11-3E	J45-Z*	A 710R	28 VOLT RMS 800 CPS 1 PERCENT HI	24	268
TB11-3F	TB11-3E		INTERNAL BUS		268
TB11-3F	TB11-4F	AA117	28 VOLT 800 CPS 1 PER CENT HI	20	268
TB11-4A	TB11-4B		INTERNAL BUS		268
TB11-4A	J32-C*	A 483R	28 VOLT 800 CPS 1 PERCENT HI	24	268
TB11-4B	TB11-4A		INTERNAL BUS		268
TB11-4B	TB11-4C		INTERNAL BUS		268
TB11-4B	J33-C*	A 504R	28 VOLT 800 CPS 1 PERCENT HI	24	268
TB11-4C	TB11-4B		INTERNAL BUS		268
TB11-4C	TB11-4D		INTERNAL BUS		268
TB11-4C	J38-C*	A 589R	28 V 800 CPS 1 PERCENT HI	24	268
TB11-4D	TB11-4C		INTERNAL BUS		268
TB11-4D	TB11-4E		INTERNAL BUS		268
TB11-4D	J25-T	A 385R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	268
TB11-4E	TB11-4D		INTERNAL BUS		268
TB11-4E	TB11-4F		INTERNAL BUS		268
TB11-4F	TB11-4E		INTERNAL BUS		268

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR | C | SHEET 212 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-4F	TB11-3F	AA117	28 VOLT 800 CPS 1 PER CENT HI	20	268
TB11-5A	TB11-5B		INTERNAL BUS		269
TB11-5A	J32-D*	A 483L	28 VOLT 800 CPS 1 PERCENT LO	24	269
TB11-5B	TB11-5A		INTERNAL BUS		269
TB11-5B	TB11-5C		INTERNAL BUS		269
TB11-5B	J33-D*	A 504L	28 VOLT 800 CPS 1 PERCENT LO	24	269
TB11-5C	TB11-5B		INTERNAL BUS		269
TB11-5C	TB11-5D		INTERNAL BUS		269
TB11-5C	J38-D*	A 589L	28 V 800 CPS 1 PERCENT LO	24	269
TB11-5D	TB11-5C		INTERNAL BUS		269
TB11-5D	TB11-5E		INTERNAL BUS		269
TB11-5D	J4-H*	A 70L	800 CPS 28 V 1 PCT LO IMU	20	269
TB11-5E	TB11-5D		INTERNAL BUS		269
TB11-5E	TB11-5F		INTERNAL BUS		269
TB11-5E	J45-Y*	A 710L	28 VOLT RMS 800 CPS 1 PERCENT LO	24	269
TB11-5F	TB11-5E		INTERNAL BUS		269
TB11-5F	TB11-6F	AA118	28 VOLT 800 CPS 1 PER CENT LO	20	269
TB11-6A	TB11-6B		INTERNAL BUS		269
TB11-6B	TB11-6A		INTERNAL BUS		269
TB11-6B	TB11-6C		INTERNAL BUS		269
TB11-6C	TB11-6B		INTERNAL BUS		269
TB11-6C	TB11-6D		INTERNAL BUS		269
TB11-6D	TB11-6C		INTERNAL BUS		269
TB11-6D	TB11-6E		INTERNAL BUS		269
TB11-6D	J25-U	A 385L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	269
TB11-6E	TB11-6D		INTERNAL BUS		269
TB11-6E	TB11-6F		INTERNAL BUS		269
TB11-6F	TB11-6E		INTERNAL BUS		269
TB11-6F	TB11-5F	AA118	28 V 800 CPS 1 PER CENT LO	20	269
TB11-7A	TB11-7B		INTERNAL BUS		153
TB11-7A	J4-J*	A 71R	SIN AOG 1X S2 (LO)	24	153
TB11-7B	TB11-7A		INTERNAL BUS		153

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR | C | SHEET 213 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-7B	TB11-7C		INTERNAL BUS		153
TB11-7B	J5-Z*	A 104L	SIN AOG 1X S2 (LO)	24	153
TB11-7C	TB11-7B		INTERNAL BUS		153
TB11-7C	TB11-7D		INTERNAL BUS		153
TB11-7D	TB11-7C		INTERNAL BUS		153
TB11-7D	TB11-7E		INTERNAL BUS		153
TB11-7E	TB11-7D		INTERNAL BUS		153
TB11-7E	TB11-7F		INTERNAL BUS		153
TB11-7F	TB11-7E		INTERNAL BUS		153
TB11-7F	J22-J	A 312	IMU SIN AOG 1X LO	24	156
TB11-8A	TB11-8B		INTERNAL BUS		156
TB11-8A	J4-K*	A 71L	SIN AOG 1X S4 (HI)	24	156
TB11-8B	TB11-8A		INTERNAL BUS		156
TB11-8B	TB11-8C		INTERNAL BUS		156
TB11-8B	J5-Y*	A 104R	SIN AOG 1X S4 (HI)	24	156
TB11-8C	TB11-8B		INTERNAL BUS		156
TB11-8C	TB11-8D		INTERNAL BUS		156
TB11-8D	TB11-8C		INTERNAL BUS		156
TB11-8D	TB11-8E		INTERNAL BUS		156
TB11-8D	K67-10	A 948	OG IMU 1 X SIN HI	24	156
TB11-8E	TB11-8D		INTERNAL BUS		156
TB11-8E	TB11-8F		INTERNAL BUS		156
TB11-8E	K52-16	A 892	OG IMU 1 X SIN HI	24	156
TB11-8F	TB11-8E		INTERNAL BUS		170
TB11-9A	TB11-9B		INTERNAL BUS		170
TB11-9B	TB11-9A		INTERNAL BUS		170
TB11-9B	TB11-9C		INTERNAL BUS		170
TB11-9C	TB11-9B		INTERNAL BUS		170
TB11-9C	TB11-9D		INTERNAL BUS		170
TB11-9D	TB11-9C		INTERNAL BUS		170
TB11-9D	TB11-9E		INTERNAL BUS		170
TB11-9D	K63-14	A 936R	MG 1 X SIN HI (BAI)	24	170

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR | C | SHEET 214 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-1A	TB17-1B		INTERNAL BUS		290
TB17-1A	J38-G*	A 591R	IG 1X ERROR HI	24	290
TB17-1B	TB17-1A		INTERNAL BUS		290
TB17-1B	TB17-1C		INTERNAL BUS		290
TB17-1B	J45-BB	A 711R	IG CDU 1X ERROR SIG (HI)	24	290
TB17-1C	TB17-1B		INTERNAL BUS		290
TB17-1C	TB17-1D		INTERNAL BUS		290
TB17-1C	J5-GG	A 108R	IG CDU 1X ERROR SIG S2 (HI)	24	290
TB17-1D	TB17-1C		INTERNAL BUS		290
TB17-1D	TB17-1E		INTERNAL BUS		290
TB17-1D	K43-17	A 850R	IG CDU 1 X ERROR HI	24	290
TB17-1E	TB17-1D		INTERNAL BUS		290
TB17-1E	TB17-1F		INTERNAL BUS		290
TB17-1F	TB17-1E		INTERNAL BUS		290
TB17-2A	TB17-2B		INTERNAL BUS		291
TB17-2A	J38-H*	A 591L	IG 1X ERROR LO	24	291
TB17-2B	TB17-2A		INTERNAL BUS		291
TB17-2B	TB17-2C		INTERNAL BUS		291
TB17-2B	J45-CC	A 711L	IG CDU ERROR SIG RET	24	291
TB17-2C	TB17-2B		INTERNAL BUS		291
TB17-2C	TB17-2D		INTERNAL BUS		291
TB17-2C	J5-HH	A 108L	IG CDU ERROR SIG RET	24	291
TB17-2D	TB17-2C		INTERNAL BUS		291
TB17-2D	TB17-2E		INTERNAL BUS		291
TB17-2D	K43-14	A 850L	IG CDU 1 X ERROR LO	24	291
TB17-2E	TB17-2D		INTERNAL BUS		291
TB17-2E	TB17-2F		INTERNAL BUS		291
TB17-2F	TB17-2E		INTERNAL BUS		291
TB17-3A	TB17-3B		INTERNAL BUS		299
TB17-3A	J33-G*	A 506R	MG 1X ERROR HI	24	299
TB17-3B	TB17-3A		INTERNAL BUS		299
TB17-3B	TB17-3C		INTERNAL BUS		299

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-3B	J45-DD	A 712R	INPUT YAW (MG CDU 1X ERROR) HI	24	299
TB17-3C	TB17-3B		INTERNAL BUS		299
TB17-3C	TB17-3D		INTERNAL BUS		299
TB17-3C	J5-AA	A 105R	MG CDU 1X ERROR SIG (HI)	24	299
TB17-3D	TB17-3C		INTERNAL BUS		299
TB17-3D	TB17-3E		INTERNAL BUS		299
TB17-3D	K47-17	A 866R	MG CDU 1 X ERROR HI	24	299
TB17-3E	TB17-3D		INTERNAL BUS		299
TB17-3E	TB17-3F		INTERNAL BUS		299
TB17-3F	TB17-3E		INTERNAL BUS		299
TB17-4A	TB17-4B		INTERNAL BUS		300
TB17-4A	J33-H*	A 506L	MG 1X ERROR LO	24	300
TB17-4B	TB17-4A		INTERNAL BUS		300
TB17-4B	TB17-4C		INTERNAL BUS		300
TB17-4B	J45-EE	A 712L	ATTITUDE ERROR (MG CDU 1X ERROR) LO	24	300
TB17-4C	TB17-4B		INTERNAL BUS		300
TB17-4C	TB17-4D		INTERNAL BUS		300
TB17-4C	J5-BB	A 105L	MG CDU ERROR SIG RET	24	300
TB17-4D	TB17-4C		INTERNAL BUS		300
TB17-4D	TB17-4E		INTERNAL BUS		300
TB17-4D	K47-14	A 866L	MG CDU 1 X ERROR LO	24	300
TB17-4E	TB17-4D		INTERNAL BUS		300
TB17-4E	TB17-4F		INTERNAL BUS		300
TB17-4F	TB17-4E		INTERNAL BUS		300
TB17-5A	TB17-5B		INTERNAL BUS		278
TB17-5A	J5-U*	A 102R	OG CDU 1X ERROR SIG (HI)	24	278
TB17-5B	TB17-5A		INTERNAL BUS		278
TB17-5B	TB17-5C		INTERNAL BUS		278
TB17-5B	J45-W*	A 709R	OG CDU 1X ERROR SIG (HI)	24	278
TB17-5C	TB17-5B		INTERNAL BUS		278
TB17-5C	TB17-5D		INTERNAL BUS		278
TB17-5C	J32-G*	A 485R	OG 1X ERROR HI	24	278

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-5D	TB17-5C		INTERNAL BUS		278
TB17-5D	TB17-5E		INTERNAL BUS		278
TB17-5D	K50-17	A 881R	OG CDU 1 X ERROR SIGNAL HI	24	278
TB17-5E	TB17-5D		INTERNAL BUS		278
TB17-5E	TB17-5F		INTERNAL BUS		278
TB17-5F	TB17-5E		INTERNAL BUS		280
TB17-6A	TB17-6B		INTERNAL BUS		280
TB17-6A	J5-V*	A 102L	OG CDU ERROR SIG RET	24	280
TB17-6B	TB17-6A		INTERNAL BUS		280
TB17-6B	TB17-6C		INTERNAL BUS		280
TB17-6B	J45-X*	A 709L	OG CDU ERROR SIG RET	24	280
TB17-6C	TB17-6B		INTERNAL BUS		280
TB17-6C	TB17-6D		INTERNAL BUS		280
TB17-6C	J32-H*	A 485L	OG 1X ERROR LO	24	280
TB17-6D	TB17-6C		INTERNAL BUS		280
TB17-6D	TB17-6E		INTERNAL BUS		280
TB17-6D	K50-14	A 881L	OG CDU 1 X ERROR SIGNAL LO	24	280
TB17-6E	TB17-6D		INTERNAL BUS		280
TB17-6E	TB17-6F		INTERNAL BUS		280
TB17-6F	TB17-6E		INTERNAL BUS		611
TB17-7A	TB17-7B		INTERNAL BUS		611
TB17-7B	TB17-7A		INTERNAL BUS		611
TB17-7B	TB17-7C		INTERNAL BUS		611
TB17-7C	TB17-7B		INTERNAL BUS		611
TB17-7C	TB17-7D		INTERNAL BUS		611
TB17-7D	TB17-7C		INTERNAL BUS		611
TB17-7D	TB17-7E		INTERNAL BUS		611
TB17-7E	TB17-7D		INTERNAL BUS		611
TB17-7E	TB17-7F		INTERNAL BUS		611
TB17-7F	TB17-7E		INTERNAL BUS		315
TB17-8A	TB17-8B		INTERNAL BUS		315
TB17-8A	J27-S	A 424	CONDITION LAMP TEST	24	315

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-8B	TB17-8A		INTERNAL BUS		315
TB17-8B	TB17-8C		INTERNAL BUS		315
TB17-8B	J39-X	A 608	CONDITION LAMP TEST	24	315
TB17-8C	TB17-8B		INTERNAL BUS		315
TB17-8C	TB17-8D		INTERNAL BUS		315
TB17-8C	J44-B	A 677	CONDITION LAMP TEST 28 VDC	24	315
TB17-8D	TB17-8C		INTERNAL BUS		315
TB17-8D	TB17-8E		INTERNAL BUS		315
TB17-8E	TB17-8D		INTERNAL BUS		315
TB17-8E	TB17-8F		INTERNAL BUS		315
TB17-8F	TB17-8E		INTERNAL BUS		135
TB17-9A	TB17-9B		INTERNAL BUS		135
TB17-9A	J7-T*	A 139R	400 CPS 115V HI	20	135
TB17-9B	TB17-9A		INTERNAL BUS		135
TB17-9B	TB17-9C		INTERNAL BUS		135
TB17-9B	J34-V	A 524L	115 VOLT 400 CPS HI	20	135
TB17-9C	TB17-9B		INTERNAL BUS		135
TB17-9C	TB17-9D		INTERNAL BUS		135
TB17-9C	J40-D*	A 630R	AGE VIEWER AND LAMP POWER 400 CPS HI	20	135
TB17-9D	TB17-9C		INTERNAL BUS		135
TB17-9D	TB17-9E		INTERNAL BUS		135
TB17-9D	J21-M	A 268R	115V 400 CPS HI	20	135
TB17-9E	TB17-9D		INTERNAL BUS		135
TB17-9E	TB17-9F		INTERNAL BUS		135
TB17-9F	TB17-9E		INTERNAL BUS		136
TB17-10A	TB17-10B		INTERNAL BUS		136
TB17-10A	J7-U*	A 139L	400 CPS 115 V LO	20	136
TB17-10B	TB17-10C		INTERNAL BUS		136
TB17-10B	TB17-10A		INTERNAL BUS		136
TB17-10B	J34-U	A 524R	115 VOLT 400 CPS LO	20	136
TB17-10C	TB17-10D		INTERNAL BUS		136
TB17-10C	TB17-10B		INTERNAL BUS		

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
	1901959-011 (M)	B	UPGRADED TO CLASS 'A' PER TDRR 17838	15 MAR 65	A.J.W.
	(M)	C	REVISED PER TDRR 21057	31 JUL 65	RLP PZ
		D	REVISED PER TDRR 22723	OCT 65	JWP AU

SHEET	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
REV STATUS OF SHEETS	REV													D	D	C	C	D	D	C	C	C	C	C	C	
	SHEET													1	2	3	4	5	6	7	8	9	10	11	12	13

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN John Kidwell 3 MAR 65 DATE

CHECKED Gaylen Hamer

APPROVAL J. Shaw 11 MAR 65

APPROVAL W. W. Wheeler 3-21-65

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM

CODE IDENT NO.	SIZE		REV
	A	1902281	D
SCALE —		SHEET 1 OF 245	

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
40	C	76	C	112	C	148	C	184	C	220	D				
41	C	77	C	113	C	149	C	185	C	221	C				
42	C	78	C	114	C	150	C	186	C	222	C				
43	C	79	C	115	C	151	C	187	C	223	C				
44	C	80	C	116	C	152	C	188	C	224	C				
45	C	81	C	117	C	153	C	189	C	225	C				
46	C	82	C	118	C	154	C	190	C	226	C				
47	C	83	C	119	C	155	C	191	C	227	C				
48	C	84	C	120	C	156	C	192	C	228	C				
49	C	85	C	121	C	157	C	193	C	229	C				
50	C	86	C	122	C	158	C	194	C	230	C				
51	C	87	C	123	C	159	C	195	C	231	C				
52	C	88	C	124	C	160	C	196	C	232	C				
53	C	89	C	125	C	161	C	197	C	233	C				
54	C	90	C	126	C	162	C	198	C	234	C				
55	C	91	C	127	C	163	C	199	C	235	C				
56	C	92	C	128	C	164	C	200	C	236	C				
57	C	93	C	129	C	165	C	201	C	237	C				
58	C	94	C	130	C	166	C	202	C	238	C				
59	C	95	C	131	C	167	C	203	C	239	C				
60	C	96	C	132	C	168	C	204	C	240	C				
61	C	97	C	133	C	169	C	205	C	241	C				
62	C	98	C	134	C	170	C	206	C	242	C				
63	C	99	C	135	C	171	C	207	C	243	C				
64	C	100	C	136	C	172	C	208	C	244	C				
65	C	101	C	137	C	173	C	209	C	245	C				
66	C	102	C	138	C	174	C	210	C						
67	C	103	C	139	C	175	C	211	C						
68	C	104	C	140	C	176	C	212	C						
69	C	105	C	141	C	177	C	213	C						
70	C	106	C	142	C	178	C	214	C						
71	C	107	C	143	C	179	C	215	C						
72	D	108	D	144	C	180	C	216	C						
73	C	109	C	145	C	181	C	217	C						
74	C	110	C	146	C	182	C	218	C						
75	C	111	C	147	C	183	C	219	D						

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION D	NASA DRAWING NO. 1902281 SHEET 2 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	A1 (SEE TB1)				
	A2 (SEE TB12)				
	E2 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E2	T1-1		ISOLATION TRANSFORMER INPUT, TERM. 1		2
E2	K56-6	A 905L	ISOLATION TRANSFORMER INPUT TERM. 1	24	2
E2	E5	AA125	ISOLATION TRANSFORMER INPUT-OUTPUT COMMON	24	2
	E3 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E3	T1-2		ISOLATION TRANSFORMER INPUT, TERM. 2		4
E3	K56-9	A 905R	ISOLATION TRANSFORMER INPUT TERM. 2	24	4
	E4 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E4	T1-3		ISOLATION TRANSFORMER OUTPUT, TERM. 3		5
E4	K56-3	A 904W	ISOLATION TRANSFORMER OUTPUT TERM. 3	24	5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 19 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	E5 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E5	T1-4		ISOLATION TRANSFORMER OUTPUT, TERM. 4		2
E5	E2	AA125	ISOLATION TRANSFORMER INPUT-OUTPUT COMMON	24	2
	E6 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E6	J3-HH	A 59L	3200 CPS 2V LO	20	6
E6	J25-C	A1108L	DUCOSYN SIM. LOAD LO	20	6
	E15 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E15	K4-2	A 738	OPTICS 28 VDC HI	16	1
E15	K6-10	A1048	OPTICS 28 VDC HI	16	1
E15	TB11-20C	A1142	OPTICS 28 VDC HI	20	1
	E20 SPLICE REDUCER (1016006-003)				
E20B	E20BB		JUMPER STRAP		3
E20B	SHLD A7	A 7A	SHIELD GROUND	22	3
E20B	SHLD A10	A 10A	SHIELD GROUND	22	3
E20B	SHLD A13	A 13A	SHIELD GROUND	22	3
E20B	SHLD A14	A 14A	SHIELD GROUND	22	3
E20B	J6-A	A 112	CABLE M29 SHIELD GROUND	20	3
E20B	SHLD A139	A 139A	SHIELD GROUND	22	3
E20BB	E20B		JUMPER STRAP		3
E20BB	E80B	A 981	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	E21 SPLICE REDUCER (1016006-003)				
E21B	E21BB		JUMPER STRAP		3
E21B	SHLD A21	A 21A	SHIELD GROUND	22	3
E21B	SHLD A23	A 23A	SHIELD GROUND	22	3
E21B	SHLD A24	A 24A	SHIELD GROUND	22	3
E21B	SHLD A25	A 25A	SHIELD GROUND	22	3
E21B	SHLD A26	A 26A	SHIELD GROUND	22	3
E21BB	E21B		JUMPER STRAP		3
E21BB	E79B	A 982	SHIELD GROUND	20	3
	E22 SPLICE REDUCER (1016006-003)				
E22B	E22BB		JUMPER STRAP		3
E22B	SHLD A28	A 28A	SHIELD GROUND	22	3
E22B	SHLD A29	A 29A	SHIELD GROUND	22	3
E22B	SHLD A30	A 30A	SHIELD GROUND	22	3
E22B	SHLD A31	A 31A	SHIELD GROUND	22	3
E22B	SHLD A32	A 32A	SHIELD GROUND	22	3
E22B	SHLD A33	A 33A	SHIELD GROUND	22	3
E22B	SHLD A35	A 35A	SHIELD GROUND	22	3
E22BB	E22B		JUMPER STRAP		3
E22BB	E79B	A 983	SHIELD GROUND	20	3
	E23 SPLICE REDUCER (1016006-003)				
E23B	E23BB		JUMPER STRAP		3
E23B	SHLD A36	A 36A	SHIELD GROUND	22	3
E23B	SHLD A37	A 37A	SHIELD GROUND	22	3
E23B	SHLD A38	A 38A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.)	E23 SPLICE REDUCER (1016006-003)				
E23B	SHLD A39	A 39A	SHIELD GROUND	22	3
E23B	SHLD A40	A 40A	SHIELD GROUND	22	3
E23B	SHLD A41	A 41A	SHIELD GROUND	22	3
E23BB	E23B		JUMPER STRAP		3
E23BB	E79B	A 984	SHIELD GROUND	20	3
	E24 SPLICE REDUCER (1016006-002)				
E24B	E24BB		JUMPER STRAP		3
E24B	SHLD A45	A 45A	SHIELD GROUND	22	3
E24B	SHLD A46	A 46A	SHIELD GROUND	22	3
E24B	SHLD A47	A 47A	SHIELD GROUND	22	3
E24B	SHLD A48	A 48A	SHIELD GROUND	22	3
E24B	SHLD A49	A 49A	SHIELD GROUND	22	3
E24B	SHLD A50	A 50A	SHIELD GROUND	22	3
E24B	SHLD A51	A 51A	SHIELD GROUND	22	3
E24B	SHLD A52	A 52A	SHIELD GROUND	22	3
E24B	SHLD A1110	A1110A	SHIELD GROUND	22	3
E24BB	E24B		JUMPER STRAP		3
E24BB	E79B	A 985	SHIELD GROUND	20	3
	E25 SPLICE REDUCER (1016006-002)				
E25B	E25BB		JUMPER STRAP		3
E25B	SHLD A53	A 53A	SHIELD GROUND	22	3
E25B	SHLD A54	A 54A	SHIELD GROUND	22	3
E25B	SHLD A55	A 55A	SHIELD GROUND	22	3
E25B	SHLD A56	A 56A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E25	SPLICE REDUCER (1016006-002)				
E25B	SHLD A59	A 59A	SHIELD GROUND	22	3
E25B	SHLD A60	A 60A	SHIELD GROUND	22	3
E25BB	E25B		JUMPER STRAP		3
E25BB	E79B	A 986	SHIELD GROUND	20	3
	E26 SPLICE REDUCER (1016006-003)				
E26B	E26BB		JUMPER STRAP		3
E26B	SHLD A62	A 62A	SHIELD GROUND	22	3
E26B	SHLD A63	A 63A	SHIELD GROUND	22	3
E26B	SHLD A64	A 64A	SHIELD GROUND	22	3
E26B	SHLD A65	A 65A	SHIELD GROUND	22	3
E26B	SHLD A66	A 66A	SHIELD GROUND	22	3
E26B	SHLD A70	A 70A	SHIELD GROUND	22	3
E26B	SHLD A71	A 71A	SHILLD GROUND	22	3
E26B	SHLD A72	A 72A	SHIELD GROUND	22	3
E26BB	E26B		JUMPER STRAP		3
E26BB	E31B	A 987	SHILLD GROUND	20	3
	E27 SPLICE REDUCER (1016006-003)				
E27B	E27BB		JUMPER STRAP		3
E27B	SHLD A73	A 73A	SHIELD GROUND	22	3
E27B	SHLD A74	A 74A	SHIELD GROUND	22	3
E27B	SHLD A75	A 75A	SHIELD GROUND	22	3
E27B	SHLD A76	A 76A	SHIELD GROUND	22	3
E27B	SHLD A77	A 77A	SHIELD GROUND	22	3
E27B	SHLD A78	A 78A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E27	SPLICE REDUCER (1016006-003)				
E27B	SHLD A79	A 79A	SHIELD GROUND	22	3
E27B	SHLD A80	A 80A	SHIELD GROUND	22	3
E27BB	E27B		JUMPER STRAP		3
E27BB	E31B	A 988	SHIELD GROUND	20	3
	E28 SPLICE REDUCER (1016006-003)				
E28B	E28BB		JUMPER STRAP		3
E28B	SHLD A85	A 85A	SHIELD GROUND	22	3
E28B	SHLD A86	A 86A	SHIELD GROUND	22	3
E28B	SHLD A89	A 89A	SHIELD GROUND	22	3
E28B	SHLD A90	A 90A	SHIELD GROUND	22	3
E28B	SHLD A91	A 91A	SHIELD GROUND	22	3
E28B	SHLD A92	A 92A	SHIELD GROUND	22	3
E28B	SHLD A93	A 93A	SHIELD GROUND	22	3
E28B	SHLD A94	A 94A	SHIELD GROUND	22	3
E28B	SHLD A95	A 95A	SHIELD GROUND	22	3
E28BB	E28B		JUMPER STRAP		3
E28BB	E31B	A 989	SHIELD GROUND	20	3
	E29 SPLICE REDUCER (1016006-003)				
E29B	E29BB		JUMPER STRAP		3
E29B	SHLD A96	A 96A	SHIELD GROUND	22	3
E29B	SHLD A97	A 97A	SHIELD GROUND	22	3
E29B	SHLD A98	A 98A	SHIELD GROUND	22	3
E29B	SHLD A99	A 99A	SHIELD GROUND	22	3
E29B	SHLD A100	A 100A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E29	SPLICE REDUCER (1016006-003)				
E29B	SHLD A101	A 101A	SHIELD GROUND	22	3
E29B	SHLD A102	A 102A	SHIELD GROUND	22	3
E29B	SHLD A103	A 103A	SHIELD GROUND	22	3
E29BB	E29B		JUMPER STRAP		3
E29BB	E31B	A 990	SHIELD GROUND	20	3
	E30 SPLICE REDUCER (1016006-003)				
E30B	E30BB		JUMPER STRAP		3
E30B	SHLD A104	A 104A	SHIELD GROUND	22	3
E30B	SHLD A105	A 105A	SHIELD GROUND	22	3
E30B	SHLD A106	A 106A	SHIELD GROUND	22	3
E30B	SHLD A107	A 107A	SHIELD GROUND	22	3
E30B	SHLD A108	A 108A	SHIELD GROUND	22	3
E30B	SHLD A109	A 109A	SHIELD GROUND	22	3
E30B	SHLD A110	A 110A	SHIELD GROUND	22	3
E30B	SHLD A111	A 111A	SHIELD GROUND	22	3
E30BB	E30B		JUMPER STRAP		3
E30BB	E31B	A 991	SHIELD GROUND	20	3
	E31 SPLICE REDUCER (1016006-003)				
E31B	E31BB		JUMPER STRAP		3
E31B	E26BB	A 987	SHIELD GROUND	20	3
E31B	E27BB	A 988	SHIELD GROUND	20	3
E31B	E28BB	A 989	SHIELD GROUND	20	3
E31B	E29BB	A 990	SHIELD GROUND	20	3
E31B	E30BB	A 991	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E31	SPLICE REDUCER (1016006-003)				
E31BB	E31B		JUMPER STRAP		3
E31BB	TB15-6	A 992	SHIELD GROUND	16	3
	E32 SPLICE REDUCER (1016006-003)				
E32B	E32BB		JUMPER STRAP		3
E32B	SHLD A232	A 232A	SHIELD GROUND	22	3
E32B	SHLD A233	A 233A	SHIELD GROUND	22	3
E32B	SHLD A234	A 234A	SHIELD GROUND	22	3
E32B	SHLD A236	A 236A	SHIELD GROUND	22	3
E32B	SHLD A237	A 237A	SHIELD GROUND	22	3
E32B	SHLD A238	A 238A	SHIELD GROUND	22	3
E32B	SHLD A239	A 239A	SHIELD GROUND	22	3
E32B	SHLD A240	A 240A	SHIELD GROUND	22	3
E32B	SHLD A1132	A1132A	SHIELD GROUND	22	3
E32B	SHLD A1134	A1134A	SHIELD GROUND	22	3
E32BB	E32B		JUMPER STRAP		3
E32BB	E80B	A 993	SHIELD GROUND	20	3
	E33 SPLICE REDUCER (1016006-003)				
E33B	E33BB		JUMPER STRAP		3
E33B	SHLD A241	A 241A	SHIELD GROUND	22	3
E33B	SHLD A242	A 242A	SHIELD GROUND	22	3
E33B	SHLD A243	A 243A	SHIELD GROUND	22	3
E33B	SHLD A244	A 244A	SHIELD GROUND	22	3
E33B	SHLD A1055	A1055A	SHIELD GROUND	22	3
E33B	SHLD A1056	A1056A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E51	SPLICE REDUCER (1016006-002)				
E51B	SHLD A1138	A1138A	SHIELD GROUND	22	3
E51BB	E51B		JUMPER STRAP		3
E51BB	E81B	A1012	SHIELD GROUND	20	3
E52	SPLICE REDUCER (1016006-003)				
E52B	E52BB		JUMPER STRAP		3
E52B	J32-B	A 480	CABLE W47 SHIELD GROUND	20	3
E52B	SHLD A483	A 483A	SHIELD GROUND	22	3
E52B	SHLD A484	A 484A	SHIELD GROUND	22	3
E52B	SHLD A485	A 485A	SHIELD GROUND	22	3
E52B	SHLD A486	A 486A	SHIELD GROUND	22	3
E52B	SHLD A487	A 487A	SHIELD GROUND	22	3
E52B	SHLD A488	A 488A	SHIELD GROUND	22	3
E52B	SHLD A489	A 489A	SHIELD GROUND	22	3
E52BB	E52B		JUMPER STRAP		3
E52BB	E81B	A1013	SHIELD GROUND	20	3
E53	SPLICE REDUCER (1016006-002)				
E53B	E53BB		JUMPER STRAP		3
E53B	SHLD A490	A 490A	SHIELD GROUND	22	3
E53B	SHLD A491	A 491A	SHIELD GROUND	22	3
E53B	SHLD A492	A 492A	SHIELD GROUND	22	3
E53B	SHLD A495	A 495A	SHIELD GROUND	22	3
E53B	SHLD A496	A 496A	SHIELD GROUND	22	3
E53B	SHLD A497	A 497A	SHIELD GROUND	22	3
E53B	SHLD A498	A 498A	SHIELD GROUND	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E53	SPLICE REDUCER (1016006-002)				
E53B	SHLD A499	A 499A	SHIELD GROUND	22	3
E53BB	E53B		JUMPER STRAP		3
E53BB	E81B	A1014	SHIELD GROUND	20	3
E54	SPLICE REDUCER (1016006-003)				
E54B	E54BB		JUMPER STRAP		3
E54B	J33-B	A 501	CABLE W48 SHIELD GROUND	20	3
E54B	SHLD A504	A 504A	SHIELD GROUND	22	3
E54B	SHLD A505	A 505A	SHIELD GROUND	22	3
E54B	SHLD A506	A 506A	SHIELD GROUND	22	3
E54B	SHLD A507	A 507A	SHIELD GROUND	22	3
E54B	SHLD A508	A 508A	SHIELD GROUND	22	3
E54B	SHLD A509	A 509A	SHIELD GROUND	22	3
E54B	SHLD A510	A 510A	SHIELD GROUND	22	3
E54B	SHLD A511	A 511A	SHIELD GROUND	22	3
E54B	SHLD A513	A 513A	SHIELD GROUND	22	3
E54BB	E54B		JUMPER STRAP		3
E54BB	E81B	A1015	SHIELD GROUND	20	3
E55	SPLICE REDUCER (1016006-003)				
E55B	E55BB		JUMPER STRAP		3
E55B	SHLD A512	A 512A	SHIELD GROUND	22	3
E55B	SHLD A516	A 516A	SHIELD GROUND	22	3
E55B	SHLD A517	A 517A	SHIELD GROUND	22	3
E55B	SHLD A518	A 518A	SHIELD GROUND	22	3
E55B	SHLD A519	A 519A	SHIELD GROUND	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E55	SPLICE REDUCER (1016006-003)				
E55B	SHLD A520	A 520A	SHIELD GROUND	22	3
E55BB	E55B		JUMPER STRAP		3
E55BB	E82B	A1016	SHIELD GROUND	20	3
E56	SPLICE REDUCER (1016006-003)				
E56B	E56BB		JUMPER STRAP		3
E56B	SHLD A523	A 523A	SHIELD GROUND	22	3
E56B	SHLD A524	A 524A	SHIELD GROUND	22	3
E56B	SHLD A529	A 529A	SHIELD GROUND	22	3
E56B	SHLD A530	A 530A	SHIELD GROUND	22	3
E56B	SHLD A531	A 531A	SHIELD GROUND	22	3
E56B	SHLD A532	A 532A	SHIELD GROUND	22	3
E56BB	E56B		JUMPER STRAP		3
E56BB	E88B	A1017	SHIELD GROUND	20	3
E57	SPLICE REDUCER (1016006-003)				
E57B	E57BB		JUMPER STRAP		3
E57B	SHLD A83	A 83A	SHIELD GROUND	22	3
E57B	SHLD A277	A 277A	SHIELD GROUND	22	3
E57B	SHLD A278	A 278A	SHIELD GROUND	22	3
E57B	J35-B	A 552	CABLE W50 SHIELD GROUND	20	3
E57B	SHLD A553	A 553A	SHIELD GROUND	22	3
E57B	SHLD A554	A 554A	SHIELD GROUND	22	3
E57B	SHLD A555	A 555A	SHIELD GROUND	22	3
E57B	SHLD A556	A 556A	SHIELD GROUND	22	3
E57B	SHLD A557	A 557A	SHIELD GROUND	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E57	SPLICE REDUCER (1016006-003)				
E57B	SHLD A1139	A1139A	SHIELD GROUND	22	3
E57BB	E57B		JUMPER STRAP		3
E57BB	E64B	A1018	SHIELD GROUND	20	3
E58	SPLICE REDUCER (1016006-003)				
E58B	E58BB		JUMPER STRAP		3
E58B	J36-B	A 561	CABLE W51 SHIELD GROUND	20	3
E58B	SHLD A562	A 562A	SHIELD GROUND	22	3
E58B	SHLD A563	A 563A	SHIELD GROUND	22	3
E58B	SHLD A564	A 564A	SHIELD GROUND	22	3
E58B	SHLD A565	A 565A	SHIELD GROUND	22	3
E58B	SHLD A566	A 566A	SHIELD GROUND	22	3
E58B	SHLD A567	A 567A	SHIELD GROUND	22	3
E58B	SHLD A568	A 568A	SHIELD GROUND	22	3
E58B	SHLD A569	A 569A	SHIELD GROUND	22	3
E58B	SHLD A571	A 571A	SHIELD GROUND	22	3
E58BB	E58B		JUMPER STRAP		3
E58BB	E64B	A1019	SHIELD GROUND	20	3
E59	SPLICE REDUCER (1016006-002)				
E59B	E59BB		JUMPER STRAP		3
E59B	SHLD A577	A 577A	SHIELD GROUND	22	3
E59B	SHLD A578	A 578A	SHIELD GROUND	22	3
E59B	SHLD A579	A 579A	SHIELD GROUND	22	3
E59B	SHLD A580	A 580A	SHIELD GROUND	22	3
E59B	SHLD A581	A 581A	SHIELD GROUND	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E59	SPLICE REDUCER (1016006-002)				
E59B	SHLD A583	A 583A	SHIELD GROUND	22	3
E59B	SHLD A584	A 584A	SHIELD GROUND	22	3
E59BB	E59B		JUMPER STRAP		3
E59BB	E82B	A1020	SHIELD GROUND	20	3
E60	SPLICE REDUCER (1016006-003)				
E60B	E60BB		JUMPER STRAP		3
E60B	J38-B	A 586	CABLE W53 SHIELD GROUND	20	3
E60B	SHLD A589	A 589A	SHIELD GROUND	22	3
E60B	SHLD A590	A 590A	SHIELD GROUND	22	3
E60B	SHLD A591	A 591A	SHIELD GROUND	22	3
E60B	SHLD A592	A 592A	SHIELD GROUND	22	3
E60B	SHLD A593	A 593A	SHIELD GROUND	22	3
E60B	SHLD A594	A 594A	SHIELD GROUND	22	3
E60B	SHLD A595	A 595A	SHIELD GROUND	22	3
E60BB	E60B		JUMPER STRAP		3
E60BB	E82B	A1021	SHIELD GROUND	20	3
E61	SPLICE REDUCER (1016006-002)				
E61B	E61BB		JUMPER STRAP		3
E61B	J37-B	A 573	CABLE W52 SHIELD GROUND	20	3
E61B	SHLD A575	A 575A	SHIELD GROUND	22	3
E61B	SHLD A576	A 576A	SHIELD GROUND	22	3
E61B	SHLD A596	A 596A	SHIELD GROUND	22	3
E61B	SHLD A597	A 597A	SHIELD GROUND	22	3
E61B	SHLD A598	A 598A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E61	SPLICE REDUCER (1016006-002)				
E61B	SHLD A601	A 601A	SHIELD GROUND	22	3
E61B	SHLD A602	A 602A	SHIELD GROUND	22	3
E61B	SHLD A603	A 603A	SHIELD GROUND	22	3
E61B	SHLD A604	A 604A	SHIELD GROUND	22	3
E61B	SHLD A605	A 605A	SHIELD GROUND	22	3
E61BB	E61B		JUMPER STRAP		3
E61BB	E82B	A1060	SHIELD GROUND	20	3
E62	SPLICE REDUCER (1016006-003)				
E62B	E62BB		JUMPER STRAP		3
E62B	J34-B	A 521	CABLE W49 SHIELD GROUND	20	3
E62B	J39-B	A 607	CABLE W54 SHIELD GROUND	20	3
E62B	SHLD A611	A 611A	SHIELD GROUND	22	3
E62B	SHLD A612	A 612A	SHIELD GROUND	22	3
E62B	J40-C*	A 616	CABLE W55 SHIELD GROUND	20	3
E62B	SHLD A630	A 630A	SHIELD GROUND	22	3
E62B	SHLD A1157	A1157A	SHIELD GROUND	22	3
E62BB	E62B		JUMPER STRAP		3
E62BB	E88B	A1022	SHIELD GROUND	20	3
E63	SPLICE REDUCER (1016006-003)				
E63B	E63BB		JUMPER STRAP		3
E63B	J41-H	A 644	CABLE W56 SHIELD GROUND	20	3
E63B	SHLD A648	A 648A	SHIELD GROUND	22	3
E63B	SHLD A649	A 649A	SHIELD GROUND	22	3
E63B	SHLD A650	A 650A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E63	SPLICE REDUCER (1016006-003)				
E63B	J42-B	A 654	CABLE W57 SHIELD GROUND	20	3
E63B	SHLD A655	A 655A	SHIELD GROUND	22	3
E63B	SHLD A656	A 656A	SHIELD GROUND	22	3
E63B	SHLD A688	A 688A	SHIELD GROUND	22	3
E63BB	E63B		JUMPER STRAP		3
E63BB	E64B	A1023	SHIELD GROUND	20	3
E64	SPLICE REDUCER (1016006-002)				
E64B	E64BB		JUMPER STRAP		3
E64B	E57BB	A1018	SHIELD GROUND	20	3
E64B	E58BB	A1019	SHIELD GROUND	20	3
E64B	E63BB	A1023	SHIELD GROUND	20	3
E64BB	E64B		JUMPER STRAP		3
E64BB	TB15-11	A1024	SHIELD GROUND	16	3
E65	SPLICE REDUCER (1016006-003)				
E65B	E65BB		JUMPER STRAP		3
E65B	J43-G	A 659	OPTICS SHIELD GROUND (FROM GNIC)	20	3
E65B	SHLD A652	A 662A	SHIELD GROUND	22	3
E65B	SHLD A666	A 666A	SHIELD GROUND	22	3
E65B	J43-A*	A 668	CABLE SHIELD GROUND	20	3
E65B	SHLD A675	A 675A	SHIELD GROUND	22	3
E65B	SHLD A1054	A1054A	SHIELD GROUND	22	3
E65B	SHLD A1133	A1133A	SHIELD GROUND	22	3
E65BB	E65B		JUMPER STRAP		3
E65BB	E88B	A1025	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
E66	SPLICE REDUCER (1016006-003)				
E66B	E66BB		JUMPER STRAP		3
E66B	SHLD A678	A 678A	SHIELD GROUND	22	3
E66B	SHLD A679	A 679A	SHIELD GROUND	22	3
E66B	SHLD A680	A 680A	SHIELD GROUND	22	3
E66B	SHLD A681	A 681A	SHIELD GROUND	22	3
E66B	J44-A*	A 691	CABLE W58 SHIELD GROUND	20	3
E66B	SHLD A701	A 701A	SHIELD GROUND	22	3
E66B	SHLD A702	A 702A	SHIELD GROUND	22	3
E66BB	E66B		JUMPER STRAP		3
E66BB	E88B	A1026	SHIELD GROUND	20	3
E67	SPLICE REDUCER (1016006-002)				
E67B	E67BB		JUMPER STRAP		3
E67B	J45-B	A 705	CABLE SHIELD GROUND	20	3
E67B	SHLD A709	A 709A	SHIELD GROUND	22	3
E67B	SHLD A710	A 710A	SHIELD GROUND	22	3
E67B	SHLD A711	A 711A	SHIELD GROUND	22	3
E67B	SHLD A712	A 712A	SHIELD GROUND	22	3
E67BB	E67B		JUMPER STRAP		3
E67BB	E88B	A1027	SHIELD GROUND	20	3
E68	SPLICE REDUCER (1016006-002)				
E68B	E68BB		JUMPER STRAP		3
E68B	SHLD A767	A 767	SHIELD GROUND	22	3
E68B	SHLD A768	A 768A	SHIELD GROUND	22	3
E68B	SHLD A769	A 769A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	E77 SPLICE REDUCER (1016006-002)				
E77B	E77BB		JUMPER STRAP		3
E77B	E68BB	A1028	SHIELD GROUND	20	3
E77B	E69BB	A1029	SHIELD GROUND	20	3
E77B	E76BB	A1036	SHIELD GROUND	20	3
E77BB	E77B		JUMPER STRAP		3
E77BB	TB15-7	A1037	SHIELD GROUND	16	3
	E78 SPLICE REDUCER (1016006-003)				
E78B	E78BB		JUMPER STRAP		3
E78B	E71BB	A1031	SHIELD GROUND	20	3
E78B	E72BB	A1032	SHIELD GROUND	20	3
E78B	E73BB	A1033	SHIELD GROUND	20	3
E78B	E74BB	A1034	SHIELD GROUND	20	3
E78B	E75BB	A1035	SHIELD GROUND	20	3
E78BB	E78B		JUMPER STRAP		3
E78BB	TB15-5	A1038	SHIELD GROUND	16	3
	E79 SPLICE REDUCER (1016006-003)				
E79B	E79BB		JUMPER STRAP		3
E79B	E21BB	A 982	SHIELD GROUND	20	3
E79B	E22BB	A 983	SHIELD GROUND	20	3
E79B	E23BB	A 984	SHIELD GROUND	20	3
E79B	E24BB	A 985	SHIELD GROUND	20	3
E79B	E25BB	A 986	SHIELD GROUND	20	3
E79B	E91BB	A1062	SHIELD GROUND	20	3
E79BB	E79B		JUMPER STRAP		3

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) E79	SPLICE REDUCER (1016006-003)				
E79BB	TB15-2	A1039	SHIELD GROUND	16	3
	E80 SPLICE REDUCER (1016006-003)				
E80B	E80BB		JUMPER STRAP		3
E80B	E20BB	A 981	SHIELD GROUND	20	3
E80B	E32BB	A 993	SHIELD GROUND	20	3
E80B	E33BB	A 994	SHIELD GROUND	20	3
E80B	E34BB	A 995	SHIELD GROUND	20	3
E80B	E35BB	A 996	SHIELD GROUND	20	3
E80BB	E80B		JUMPER STRAP		3
E80BB	TB15-4	A1040	SHIELD GROUND	16	3
	E81 SPLICE REDUCER (1016006-003)				
E81B	E81BB		JUMPER STRAP		3
E81B	E50BB	A1011	SHIELD GROUND	20	3
E81B	E51BB	A1012	SHIELD GROUND	20	3
E81B	E52BB	A1013	SHIELD GROUND	20	3
E81B	E53BB	A1014	SHIELD GROUND	20	3
E81B	E54BB	A1015	SHIELD GROUND	20	3
E81BB	E81B		JUMPER STRAP		3
E81BB	TB15-12	A1041	SHIELD GROUND	16	3
	E82 SPLICE REDUCER (1016006-002)				

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) E82	SPLICE REDUCER (1016006-002)				
E82B	E82BB		JUMPER STRAP		3
E82B	E55BB	A1016	SHIELD GROUND	20	3
E82B	E59BB	A1020	SHIELD GROUND	20	3
E82B	E60BB	A1021	SHIELD GROUND	20	3
E82B	E61BB	A1060	SHIELD GROUND	20	3
E82BB	E82B		JUMPER STRAP		3
E82BB	TB15-13	A1042	SHIELD GROUND	16	3
	E87 SPLICE REDUCER (1016006-002)				
E87B	E87BB		JUMPER STRAP		7
E87B	J34-G	A 274	0 VDC IMU	20	7
E87B	J34-J	A 275	AGC COMMON (SIMULATED)	20	7
E87B	J27-J*	A 432	ISS 0 VDC COMPUTER COMMON	20	7
E87B	K3-9	A 658	IMU POWER 28 VDC RETURN (0 VDC)	20	7
E87B	J45-H*	A 706	AGC COMMON	20	7
E87B	J45-N*	A 707	0 VDC	20	7
E87BB	E87B		JUMPER STRAP		7
E87BB	TB16-6	A1047	ISS ZERO VDC	16	7
	E88 SPLICE REDUCER (1016006-003)				
E88B	E88BB		JUMPER STRAP		3
E88B	E56BB	A1017	SHIELD GROUND	20	3
E88B	E62BB	A1022	SHIELD GROUND	20	3
E88B	E65BB	A1025	SHIELD GROUND	20	3
E88B	E66BB	A1026	SHIELD GROUND	20	3
E88B	E67BB	A1027	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) E88	SPLICE REDUCER (1016006-003)				
E88B	E94BB	A1075	SHIELD GROUND	20	3
E88B	SHLD A1155	A1155A	SHIELD GROUND	22	3
E88BB	E88B		JUMPER STRAP		3
E88BB	TB15-14	A1049	SHIELD GROUND	16	3
	E89 SPLICE REDUCER (1016006-003)				
E89B	E89BB		JUMPER STRAP		3
E89B	SHLD A331	A 331A	SHIELD GROUND	22	3
E89B	J23-C	A 332	CABLE SHIELD GND	20	3
E89B	SHLD A334	A 334A	SHIELD GROUND	22	3
E89B	J23-H	A 335	SHIELD GROUND	20	3
E89B	SHLD A336	A 336A	SHIELD GROUND	22	3
E89B	SHLD A337	A 337A	SHIELD GROUND	22	3
E89B	J23-R	A 338	SHIELD GROUND	20	3
E89B	E40B	A1004	SHIELD GROUND	20	3
E89BB	E89B		JUMPER STRAP		3
	E90 SPLICE REDUCER (1016006-003)				
E90B	E90BB		JUMPER STRAP		3
E90B	SHLD A339	A 339A	SHIELD GROUND	22	3
E90B	SHLD A340	A 340A	SHIELD GROUND	22	3
E90B	SHLD A341	A 341A	SHIELD GROUND	22	3
E90B	SHLD A342	A 342A	SHIELD GROUND	22	3
E90B	SHLD A343	A 343A	SHIELD GROUND	22	3
E90B	SHLD A344	A 344A	SHIELD GROUND	22	3
E90B	SHLD A345	A 345A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E90	SPLICE REDUCER (1016006-003)				
E90B	SHLD A346	A 346A	SHIELD GROUND	22	3
E90B	SHLD A347	A 347A	SHIELD GROUND	22	3
E90BB	E90B		JUMPER STRAP		3
E90BB	E40B	A1005	SHIELD GROUND	20	3
E91	SPLICE REDUCER (1016006-002)				
E91B	E91BB		JUMPER STRAP		3
E91B	SHLD A184	A 184A	SHIELD GROUND	22	3
E91B	SHLD A187	A 187A	SHIELD GROUND	22	3
E91B	SHLD A190	A 190A	SHIELD GROUND	22	3
E91B	SHLD A191	A 191A	SHIELD GROUND	22	3
E91BB	E91B		JUMPER STRAP		3
E91BB	E79B	A1062	SHIELD GROUND	20	3
E92	SPLICE REDUCER (1016006-002)				
E92B	E92BB		JUMPER STRAP		7
E92B	J11-J	A 252	0 VDC IMU (IMU DELAY LIGHT LO)	24	7
E92B	J11-T•	A 290	0 VDC IMU	20	7
E92B	J11-G	A1137	0 VDC IMU (IMU TEMP CONTR FAIL LIGHT LO)	20	7
E92BB	E92B		JUMPER STRAP		7
E92BB	TB16-11	A1073	ISS ZERO VDC	16	7
E93	SPLICE REDUCER (1016006-003)				

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E93	SPLICE REDUCER (1016006-003)				
E93B	E93BB		JUMPER STRAP		3
E93B	SHLD A270	A 270A	SHIELD GROUND	22	3
E93B	SHLD A353	A 353A	SHIELD GROUND	22	3
E93B	J24-S	A 356	OPTICS 0 VDC	20	3
E93B	J24-T	A 357	OPTICS 0 VDC	20	3
E93B	J24-U	A 358	CABLE W44 SHIELD GROUND	20	3
E93B	SHLD A359	A 359A	SHIELD GROUND	22	3
E93B	SHLD A373	A 373A	SHIELD GROUND	22	3
E93BB	E93B		JUMPER STRAP		3
E93BB	E40B	A1074	SHIELD GROUND	20	3
E94	SPLICE REDUCER (1016006-003)				
E94B	E94BB		JUMPER STRAP		3
E94B	SHLD A272	A 272A	SHIELD GROUND	22	3
E94B	SHLD A273	A 273A	SHIELD GROUND	22	3
E94B	SHLD A542	A 542A	SHIELD GROUND	22	3
E94B	SHLD A544	A 544A	SHIELD GROUND	22	3
E94B	SHLD A547	A 547A	SHIELD GROUND	22	3
E94B	SHLD A550	A 550A	SHIELD GROUND	22	3
E94B	SHLD A551	A 551A	SHIELD GROUND	22	3
E94BB	E94B		JUMPER STRAP		3
E94BB	E88B	A1075	SHIELD GROUND	20	3
J1	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J1-A			SPARE CONTACT		
J1-B			SPARE CONTACT (DO NOT USE)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J1	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J1-C			SPARE CONTACT		
J1-D			SPARE CONTACT		
J1-E			SPARE CONTACT		
J1-F			SPARE CONTACT		
J1-G			SPARE CONTACT		
J1-H			SPARE CONTACT		
J1-J			SPARE CONTACT		
J1-K			SPARE CONTACT		
J1-L			SPARE CONTACT		
J1-M			SPARE CONTACT		
J1-N			SPARE CONTACT		
J1-P	K27-6	A1144	OPTICS TEST LATCH VOLTAGE	20	14
J1-R			SPARE CONTACT		
J1-S			SPARE CONTACT		
J1-T	J47-D	A1170	OPTICS ZERO ENCODER IND.	20	16
J1-U	TB12-16	A1162	SCT MDA DISABLE HI	20	18
J1-V	TB12-15	A1163	SCT MDA DISABLE LO	20	20
J1-W	J47-P	A1171	MARK	20	22
J1-X	J47-R	A1172	NOT MARK	20	23
J1-Y			SPARE CONTACT		
J1-Z			SPARE CONTACT		
J1-A•			SPARE CONTACT		
J1-B•			SPARE CONTACT		
J1-C•			SPARE CONTACT		
J1-D•			SPARE CONTACT		
J1-E•			SPARE CONTACT		
J1-F•			SPARE CONTACT		
J1-G•			SPARE CONTACT		
J1-H•			SPARE CONTACT		
J1-I•			SPARE CONTACT		
J1-J•			SPARE CONTACT		
J1-K•			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J1	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J1-M•			SPARE CONTACT		
J1-N•			SPARE CONTACT		
J1-P•			SPARE CONTACT		
J1-Q•			SPARE CONTACT		
J1-S•	K19-1	A 6	SHAFT LOOP TEST CONTROL	20	15
J1-T•	K18-7	A 7R	800 CPS VAR OPTICS TEST VOLTAGE HI	24	17
J1-U•	K18-1	A 7L	800 CPS VAR OPTICS TEST VOLTAGE LO	24	19
J1-V•	K30-1	A 8	TRUNNION LOOP TEST CONTROL	20	21
J1-W•			SPARE CONTACT		
J1-X•	K26-3	A1161	OPTICS TEST COMMAND	20	24
J1-Y•	K20-13	A 10R	VAR. VOLTAGE CONTR INPUT HI	24	25
J1-Z•	K20-9	A 10L	VAR. VOLTAGE CONTR INPUT LO	24	26
J1-AA	TB12-22	A 11	OPT TEST CSC RELAY LO	24	8
J1-BB	K20-2	A 12	OPT TEST ZEROING RELAY LO	24	9
J1-CC	K28-3	A 13W	+28 VDC OPTICS SWITCHED	22	10
J1-DD	K27-3	A 14W	+28 VDC OPTICS SWITCHED	22	11
J1-EE	TB12-14	A 15	ENABLE SHAFT CDU MOTOR	20	12
J1-FF	TB12-12	A 16	ENABLE TRUN CDU MOTOR	20	13
J1-GG			SPARE CONTACT		
J1-HH			SPARE CONTACT		
J2	55 PIN CONNECTOR MS 3127E22-55P (1897053-550)				
J2-A			SPARE CONTACT		
J2-B			SPARE CONTACT (DO NOT USE)		
J2-C	TB13-1F	A 21R	800 CPS 28V L-90 DEG HI IMU	24	107
J2-D	TB13-2F	A 21L	800 CPS 28V L-90 DEG LO IMU	24	109
J2-E			SPARE CONTACT		
J2-F			SPARE CONTACT		
J2-G	J27-V	A1196R	800 CPS 28V S PERCENT IMU WHEELS PH A	20	113

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J2	55 PIN CONNECTOR MS 3127E22-55P (1897053-550)				
J2-H	J27-U	A1196Y	800 CPS 28V 5 PERCENT IMU WHEELS PH B	20	115
J2-J	J27-T	A1196L	800 CPS 28V 5 PERCENT IMU WHEELS LO	20	117
J2-K			SPARE CONTACT		
J2-L			SPARE CONTACT		
J2-M			SPARE CONTACT		
J2-N			SPARE CONTACT		
J2-P			SPARE CONTACT		
J2-R			SPARE CONTACT		
J2-S			SPARE CONTACT		
J2-T			SPARE CONTACT		
J2-U			SPARE CONTACT		
J2-V			SPARE CONTACT		
J2-W			SPARE CONTACT		
J2-X			SPARE CONTACT		
J2-Y			SPARE CONTACT		
J2-Z			SPARE CONTACT		
J2-A*	K65-6	A 23R	CARD POINT SIN 16X LO	24	103
J2-B*	K65-3	A 23L	CARD POINT SIN 16X HI	24	105
J2-C*	K65-12	A 24R	CARD POINT COS 16X HI	24	108
J2-D*	K65-9	A 24L	CARD POINT COS 16X LO	24	110
J2-E*	K66-3	A 25L	CARD POINT SIN 1X HI	24	111
J2-F*	K66-6	A 25R	CARD POINT SIN 1X LO	24	112
J2-G*	K66-12	A 26R	CARD POINT COS 1X HI	24	114
J2-H*	K66-9	A 26L	CARD POINT COS 1X LO	24	116
J2-I*			SPARE CONTACT		
J2-J*			SPARE CONTACT		
J2-K*			SPARE CONTACT		
J2-M*			SPARE CONTACT		
J2-N*	J44-T*	A 28W	IMU TEMP CONT K2 PIN5 (AUTO OVRD, PROP AND BACKUP MODE CMND HI)	24	118
J2-P*	J44-U*	A 29W	IMU TEMP CONT AMP PIN5 (PROP MODE CMND HI)	24	119
J2-Q*	J43-Q*	A 30W	IMU HTR CURR AMP PIN5 (27 VDC DURING G AND N IN)	24	120

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J2	55 PIN CONNECTOR MS 3127E22-55P (1897053-550)				
J2-R*	J43-G*	A 31W	IRIG TEMP BRIDGE AMP PIN 6	24	121
J2-S*	J43-H*	A 32W	ACCEL TEMP BRIDGE AMP PIN 6	24	122
J2-T*	J44-H*	A 33W	ACCEL IND SENSOR HI	24	123
J2-U*	J43-W*	A 34	0 VDC IMU (27VDC LO DURING G AND N EMER MODE)	20	124
J2-V*	J43-M*	A 35W	IMU TEMP ALARM AMP PIN5 (27 VDC LO DURING G AND N IN)	24	125
J2-W*	J43-N*	A 36W	IMU TEMP ALARM AMP PIN 15 (27 VDC LO IN EMER MODE)	24	126
J2-X*	J43-P*	A 37W	EMERG HTR CONT. MODE LO (EMER MODE COMMAND LO G AND N)	24	127
J2-Y*	J44-V*	A 38W	IMU TEMP CONT K1 PIN 3 (AUTO OVRD AND EMER MODE COMMAND HI)	24	128
J2-Z*	J44-W*	A 39W	IMU TEMP CONT K2 PIN 6 (AUTO OVRD AND EMER MODE CMND LO G AND N)	24	129
J2-AA	J44-X*	A 40W	IMU TEMP ALARM AMP PIN 14 (27 VDC HI DURING G AND N IN)	24	104
J2-BB	J44-Y*	A 41W	IMU TEMP ALARM BIAS RES (AUTO OVRD AND PROP MODE CMND LO)	24	106
J2-CC			SPARE CONTACT		
J2-DD			SPARE CONTACT		
J2-EE			SPARE CONTACT		
J2-FF			SPARE CONTACT		
J2-GG			SPARE CONTACT		
J2-HH			SPARE CONTACT		
J3	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J3-A			SPARE CONTACT		
J3-B			SPARE CONTACT (DO NOT USE)		
J3-C			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J3	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J3-D			SPARE CONTACT		
J3-E			SPARE CONTACT		
J3-F			SPARE CONTACT		
J3-G			SPARE CONTACT		
J3-H			SPARE CONTACT		
J3-J			SPARE CONTACT		
J3-K	J25-I*	A1110R	25.6 KC HI IMU	20	257
J3-L	J25-J*	A1110L	25.6 KC LO IMU	20	258
J3-M			SPARE CONTACT		
J3-N			SPARE CONTACT		
J3-P			SPARE CONTACT		
J3-R			SPARE CONTACT		
J3-S			SPARE CONTACT		
J3-T			SPARE CONTACT		
J3-U			SPARE CONTACT		
J3-V			SPARE CONTACT		
J3-W			SPARE CONTACT		
J3-X			SPARE CONTACT		
J3-Y			SPARE CONTACT		
J3-Z			SPARE CONTACT		
J3-A*	K45-12	A 45L	SIN AIG 16X TO POS (HI)	24	327
J3-B*	K45-9	A 45R	SIN AIG 16X TO POS (LO)	24	329
J3-C*	K45-3	A 46R	COS AIG 16X TO POS (HI)	24	331
J3-D*	K45-6	A 46L	COS AIG 16X TO POS (LO)	24	332
J3-E*	K44-12	A 47R	SIN AIG 1X TO POS (HI)	24	333
J3-F*	K44-15	A 47L	SIN AIG 1X TO POS (LO)	24	334
J3-G*	K44-6	A 48R	COS AIG 1X TO POS (HI)	24	335
J3-H*	K44-9	A 48L	COS AIG 1X TO POS (LO)	24	336
J3-I*			SPARE CONTACT		
J3-J*	K49-12	A 49L	SIN AMG 16X TO POS (HI)	24	337
J3-K*	K49-9	A 49R	SIN AMG 16X TO POS (LO)	24	338
J3-M*	K49-3	A 50R	COS AMG 16X TO POS (HI)	24	339

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J3	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J3-N*	K49-6	A 50L	COS AMG 16X TO POS (LO)	24	340
J3-P*	K48-12	A 51R	SIN AMG 1X TO POS (HI)	24	341
J3-Q*	K48-15	A 51L	SIN AMG 1X TO POS (LO)	24	342
J3-R*	K48-6	A 52R	COS AMG 1X TO POS (HI)	24	343
J3-S*	K48-9	A 52L	COS AMG 1X TO POS (LO)	24	344
J3-T*	K53-9	A 53R	SIN AOG 16X TO POS (HI)	24	345
J3-U*	K53-12	A 53L	SIN AOG 16X TO POS (LO)	24	346
J3-V*	K53-3	A 54R	COS AOG 16X TO POS (HI)	24	347
J3-W*	K53-6	A 54L	COS AOG 16X TO POS (LO)	24	348
J3-X*	K52-15	A 55L	SIN AOG 1X TO POS (HI)	24	349
J3-Y*	K52-12	A 55R	SIN AOG 1X TO POS (LO)	24	350
J3-Z*			SPARE CONTACT		
J3-AA	K52-6	A 56R	COS AOG 1X TO POS (HI)	24	328
J3-BB	K52-9	A 56L	COS AOG 1X TO POS (LO)	24	330
J3-CC	J25-B*	A 388L	3200 CPS 2V FDBK LO	20	247
J3-DD	J25-A*	A 388R	3200 CPS 2V FDBK HI	20	246
J3-EE	J27-A	A1107R	3200 CPS GSE PWR SUP HI	20	301
J3-FF	J27-C	A1107L	3200 CPS GSE PWR SUP LO	20	304
J3-GG	XF5-2	A 59R	3200 CPS 2V HI	20	245
J3-HH	E6	A 59L	3200 CPS 2V LO	20	6
J3-JJ	TB7-9D	A 60R	3200 CPS 2V FDBK HI	20	80
J3-KK	TB7-10D	A 60L	3200 CPS 2V FDBK LO	20	83
J3-LL			SPARE CONTACT		
J3-MM			SPARE CONTACT		
J3-NN			SPARE CONTACT		
J3-PP			SPARE CONTACT		
J4	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
J6	7 PIN CONNECTOR MS 3102E28-10P (1897108-100)				
J6-A	E20B	A 112	SHIELD GROUND	20	3
J6-B			SPARE CONTACT		
J6-C	TB5-9	A 113	28 VDC AGE POWER HI	8	524
J6-D	TB8-10	A 114	28 VDC AGE POWER LO	8	7
J6-E			SPARE CONTACT		
J6-F	TB5-10	A 116	28 VDC AGE POWER REMOTE SENSE HI	16	524
J6-G	TB8-7	A 115	28 VDC AGE POWER REMOTE SENSE LO	16	7
J7	55 PIN CONNECTOR MS 3127E22-55PX (1897053-552)				
J7-A			SPARE CONTACT		
J7-B			SPARE CONTACT (DO NOT USE)		
J7-C	XF19-1	A1083	27 VDC HI OIA ON	20	525
J7-D	TB7-15E	A1084	27 VDC RELAY AND LAMP POWER LO	20	355
J7-E			SPARE CONTACT		
J7-F			SPARE CONTACT		
J7-G			SPARE CONTACT		
J7-H			SPARE CONTACT		
J7-J			SPARE CONTACT		
J7-K			SPARE CONTACT		
J7-L	TB5-8	A1187	28 VDC AGE HI (REMOTE SENSE)	20	524
J7-M	TB8-15	A1188	28 VDC AGE LO (REMOTE SENSE)	20	7
J7-N			SPARE CONTACT		
J7-P			SPARE CONTACT		
J7-R			SPARE CONTACT		
J7-S			SPARE CONTACT		
J7-T			SPARE CONTACT		
J7-U			SPARE CONTACT		
J7-V			SPARE CONTACT		
J7-W			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J7	55 PIN CONNECTOR MS 3127E22-55PX (1897053-552)				
J7-X			SPARE CONTACT		
J7-Y			SPARE CONTACT		
J7-Z			SPARE CONTACT		
J7-A*			SPARE CONTACT		
J7-B*			SPARE CONTACT		
J7-C*	XF20-1	A1152	28 VDC AGE HI	20	524
J7-D*	TB8-5	A 129	28 VDC AGE LO	20	7
J7-E*	J46-A	A 130	+28 VDC STBY BUS B	20	322
J7-F*	J46-C	A 131	+28 VDC IMU BUS B	20	325
J7-G*	J46-F*	A 132	+28 VDC AGC BUS B	20	321
J7-H*	J40-A*	A 133	+28 VDC AGC BUS A	20	319
J7-I*	J40-C	A 134	+28 VDC IMU BUS A	20	324
J7-J*	J40-A	A 135	+28 VDC ISS STBY BUS A	20	320
J7-K*	TB13-3A	A 136	27 VDC RLP LO OSS ONLY	20	356
J7-M*	J40-F	A1173	0 VDC IMU	20	318
J7-N*	J40-F*	A1174	0 VDC AGC	20	323
J7-P*	J40-B*	A1175	0 VDC OPTICS	20	354
J7-Q*			SPARE CONTACT		
J7-R*	K5-6	A 137	AGC POWER ON LAMP	24	530
J7-S*	K5-4	A 138	27 VDC HI AGC	24	531
J7-T*	TB17-9A	A 139R	400 CPS 115V HI	20	135
J7-U*	TB17-10A	A 139L	400 CPS 115V LO	20	136
J7-V*	K4-6	A 140	OPTICS POWER ON LAMP	24	523
J7-W*	K4-4	A 141	27 VDC HI OPTICS	24	532
J7-X*	K6-1	A 142	AGE POWER TRANSFER A	20	525
J7-Y*	K1-X01	A 143	AGE POWER TRANSFER B	20	533
J7-Z*	K1-X02	A 144	AGE POWER TRANSFER LO	20	534
J7-AA	XF19-1	A 145	27 VDC HI OIA ON	20	525
J7-BB	TB7-16E	A 146	27 VDC RELAY AND LAMP PWR. LO	20	355
J7-CC	K3-6	A 147	ISS STANDBY ON IND	24	526
J7-DD	K3-4	A 148	27 VDC HI ISS STANDBY	24	527
J7-EE	K2-11	A 149	27 VDC HI ISS OPERATE IND	20	528

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J7	55 PIN CONNECTOR MS 3127E22-55PX (1897053-552)				
J7-FF	K2-X01	A 150	27 VDC HI ISS OPERATE	20	529
J7-GG	J40-G	A 151	+28 VDC OPTICS BUS A	20	353
J7-HH	J46-G	A 152	+28 VDC OPTICS BUS B	20	352
J8	55 PIN CONNECTOR MS 3127E22-55S (1897054-550)				
J8-A			SPARE CONTACT		
J8-B			SPARE CONTACT (DO NOT USE)		
J8-C			SPARE CONTACT		
J8-D			SPARE CONTACT		
J8-E			SPARE CONTACT		
J8-F			SPARE CONTACT		
J8-G			SPARE CONTACT		
J8-H			SPARE CONTACT		
J8-J	J39-Y*	A 188	COARSE ALIGN MODE COMMAND FROM AGC	24	457
J8-K	J39-Z*	A 189	ZERO ENCODER MODE COMMAND FROM AGC	24	458
J8-L	J39-AA	A 190W	COARSE ALIGN MODE IND TO AGC	24	450
J8-M	J45-FF	A 191W	ATTITUDE CONTR MODE IND TO AGC	24	518
J8-N	J39-FF	A 192	CDU MANUAL MODE COMMAND FROM AGC	24	452
J8-P			SPARE CONTACT		
J8-R			SPARE CONTACT		
J8-S	J34-DD	A 262	BACK-UP MODE RELAY CONTR	24	393
J8-T	J39-M*	A 153	BACK-UP MODE RELAY CONTR	20	453
J8-U	J27-LL	A 154	ZERO ENCODER MODE IND TO AGC	24	309
J8-V	J27-Z*	A 155	MANUAL CDU MODE IND TO AGC	24	326
J8-W			SPARE CONTACT		
J8-X			SPARE CONTACT		
J8-Y			SPARE CONTACT		
J8-Z			SPARE CONTACT		
J8-A*	P11-C*	A 160	STEPPER UNITS ZERO	24	535

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J8	55 PIN CONNECTOR MS 3127E22-55S (1897054-550)				
J8-B*	P10-A	A 161	STEPPER UNITS ONE	24	536
J8-C*	P10-B	A 162	STEPPER UNITS TWO	24	537
J8-D*	P10-C	A 163	STEPPER UNITS THREE	24	538
J8-E*	P10-D	A 164	STEPPER UNITS FOUR	24	539
J8-F*	P10-E	A 165	STEPPER UNITS FIVE	24	540
J8-G*	P10-F	A 166	STEPPER UNITS SIX	24	541
J8-H*	P10-G	A 167	STEPPER UNITS SEVEN	24	542
J8-I*			SPARE CONTACT		
J8-J*	P10-H	A 168	STEPPER UNITS EIGHT	24	543
J8-K*	P10-J	A 169	STEPPER UNITS NINE	24	544
J8-M*	P8-K	A 170	STEPPER TENS ONE	24	545
J8-N*	P8-W	A 171	STEPPER TENS TWO	24	546
J8-P*	P9-D	A 172	STEPPER TENS THREE	24	547
J8-Q*	P9-P	A 173	STEPPER TENS FOUR	24	548
J8-R*	P9-A*	A 174	STEPPER TENS FIVE	24	549
J8-S*			SPARE CONTACT		
J8-T*			SPARE CONTACT		
J8-U*	K7-5	A 175	CONTINUITY TEST PROCEED LIGHT	24	550
J8-V*	K7-3	A 176	CONTINUITY IND	24	551
J8-W*			SPARE CONTACT		
J8-X*	J34-N*	A 177	TRANSFER SWITCH INDICATION TO AGC	24	405
J8-Y*	J34-P*	A 178	ATTITUDE CONTROL MODE COMMAND FROM AGC	24	406
J8-Z*	J34-R*	A 179	MODE RELAY COMMON TO AGC	24	408
J8-AA	J34-V*	A 180	MODE RELAY COMMON	24	412
J8-BB	J34-K	A 181	0 VDC IMU	20	402
J8-CC	J34-HH	A 182	ATTITUDE CONTR RELAY CONTR	24	399
J8-DD	J39-A*	A 183	FINE ALIGN MODE COMMAND FROM AGC	24	449
J8-EE	J39-D*	A 184W	FINE ALIGN MODE IND TO AGC	24	451
J8-FF	J45-J*	A 185	MODE RELAY COMMON	20	520
J8-GG	J39-U*	A 186	ENTRY MODE COMMAND FROM AGC	24	455
J8-HH	J39-X*	A 187W	ENTRY MODE IND TO AGC	24	456

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	J9	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J9-A			SPARE CONTACT		
J9-B			SPARE CONTACT (DO NOT USE)		
J9-C	J26-C	A1078	27 VDC RLP HI	20	273
J9-D			SPARE CONTACT		
J9-E			SPARE CONTACT		
J9-F			SPARE CONTACT		
J9-G			SPARE CONTACT		
J9-H			SPARE CONTACT		
J9-J			SPARE CONTACT		
J9-K			SPARE CONTACT		
J9-L			SPARE CONTACT		
J9-M			SPARE CONTACT		
J9-N			SPARE CONTACT		
J9-P			SPARE CONTACT		
J9-R			SPARE CONTACT		
J9-S			SPARE CONTACT		
J9-T			SPARE CONTACT		
J9-U			SPARE CONTACT		
J9-V			SPARE CONTACT		
J9-W			SPARE CONTACT		
J9-X			SPARE CONTACT		
J9-Y	K65-1	A 193	OG CDU TEST COMMAND	20	569
J9-Z			SPARE CONTACT		
J9-A*			SPARE CONTACT		
J9-B*			SPARE CONTACT		
J9-C*			SPARE CONTACT		
J9-D*			SPARE CONTACT		
J9-E*			SPARE CONTACT		
J9-F*			SPARE CONTACT		
J9-G*	K22-3	A 201	PIPA LOOPS INHIBIT IND	20	552
J9-H*	K22-1	A 202	PIPA LOOPS INHIBIT COMMAND	20	553
J9-I*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J9		61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J9-J*	K55-1	A 203	X-GYRO ERROR TO OG SA	20	554
J9-K*	K40-1	A 204	X-GYRO ERROR TO MG SA	20	556
J9-M*	K41-1	A 205	Z-GYRO ERROR TO MG SA	20	558
J9-N*	K56-1	A 206	INVERT Z-GYRO ERROR	20	559
J9-P*	K57-1	A 207	IG CDU TEST COMMAND	20	560
J9-Q*	K42-1	A 208	IG CDU LOOP INHIBIT	20	561
J9-R*	K44-3	A 209	IG POS SEL IND	20	562
J9-S*	K44-1	A 210	ENABLE IG IMU RSVR SIG TO GPC	20	563
J9-T*	K61-1	A 211	MG CDU TEST COMMAND	20	564
J9-U*	K46-1	A 212	MG CDU LOOP INHIBIT	20	565
J9-V*	K48-3	A 213	MG POS SEL IND	20	566
J9-W*	K48-1	A 214	ENABLE MG IMU RSVR SIG TO GPC	20	567
J9-X*	K50-1	A 215	OG CDU LOOP INHIBIT	20	568
J9-Y*	K52-3	A 216	OG POS SELECTED IND	20	570
J9-Z*	K52-1	A 217	ENABLE OG IMU RSVR SIG TO GPC	20	571
J9-AA			SPARE CONTACT		
J9-BB			SPARE CONTACT		
J9-CC	J22-W*	A 220	WHEELS DISABLE COMMAND	20	178
J9-DD			SPARE CONTACT		
J9-EE			SPARE CONTACT		
J9-FF	J25-E*	A 223	DUCOSYN EXC SWITCHING RELAY HI	20	252
J9-GG	J25-F*	A 224	DUCOSYN EXC SWITCHING RELAY LO	20	254
J9-HH	TB1-2	A 225	CONTINUITY TEST SOURCE VOLTAGE	24	550
J9-JJ	K7-8	A 226	CONTINUITY TEST PROCEED VOLTAGE	24	555
J9-KK	K54-1	A 227	IRIG TEST SELECTED	20	557
J9-LL			SPARE CONTACT		
J9-MM			SPARE CONTACT		
J9-NN			SPARE CONTACT		
J9-PP			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	J10	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J10-A			SPARE CONTACT		
J10-B			SPARE CONTACT (DO NOT USE)		
J10-C	K42-11	A 232R	IG CDU MDA TACH SIGNAL	22	30
J10-D	K42-8	A 232L	IG CDU MDA INPUT RETURN	22	32
J10-E	K46-11	A 233R	MG CDU MDA TACH SIG	22	34
J10-F	K46-8	A 233L	MG CDU MDA INPUT RET	22	36
J10-G	K50-11	A 234R	OG CDU MDA TACH SIG	22	38
J10-H	K50-8	A 234L	OG CDU MDA INPUT RET	22	41
J10-J			SPARE CONTACT		
J10-K			SPARE CONTACT		
J10-L			SPARE CONTACT		
J10-M	J39-T*	A1134W	400 CPS VAR ILLUM PWR HI	20	44
J10-N	J34-M	A1132W	400 CPS 6V LO	20	46
J10-P			SPARE CONTACT		
J10-R			SPARE CONTACT		
J10-S			SPARE CONTACT		
J10-T	K51-17	A 236R	OG CDU 1/2 X ERROR SIG (HI)	24	54
J10-U	K51-14	A 236L	OG CDU ERROR SIG RET	24	56
J10-V	K46-17	A 237R	MG CDU 1/2 X ERROR SIG (HI)	24	58
J10-W	K46-14	A 237L	MG CDU ERROR SIG RET	24	59
J10-X	K42-17	A 238R	IG CDU 1/2 X ERROR SIGNAL S3 HI	24	60
J10-Y	K42-14	A 238L	IG CDU ERROR SIGNAL RETURN S1	24	61
J10-Z			SPARE CONTACT		
J10-A*	J47-G	A1192	GIMBAL LOCK LIGHT HI	20	27
J10-B*	TB16-5	A1193	0 VDC IMU	20	7
J10-C*			SPARE CONTACT		
J10-D*			SPARE CONTACT		
J10-E*	J34-C	A1055R	400 CPS 26V HI	24	35
J10-F*	J34-D	A1055L	400 CPS 26V LO	24	37
J10-G*	XF17-2	A1056W	400 CPS 1.5V 0 PH	24	39
J10-H*	XF18-2	A1057W	400 CPS 1.5V PI PH	24	42
J10-I*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J10		61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J10-J*			SPARE CONTACT		
J10-K*			SPARE CONTACT		
J10-M*	K68-13	A 239R	SIN AOG 16X TO CDU	24	45
J10-N*	K68-10	A 239L	SIN AOG 16X S4 (LO)	24	47
J10-P*	K64-10	A 240R	SIN AMG 16X TO CDU	24	49
J10-Q*	K64-13	A 240L	SIN AMG 16X S4	24	51
J10-R*	K45-13	A 241R	SIN AIG 16X TO CDU	24	52
J10-S*	K45-10	A 241L	SIN AIG 16X S4	24	53
J10-T*	K67-7	A 242R	COS AOG 16X S3 (HI)	24	55
J10-U*	K67-4	A 242L	COS AOG 16X TO CDU	24	57
J10-V*			SPARE CONTACT		
J10-W*			SPARE CONTACT		
J10-X*			SPARE CONTACT		
J10-Y*			SPARE CONTACT		
J10-Z*			SPARE CONTACT		
J10-AA	K63-7	A 243R	COS AMG 16X S3 (HI)	24	28
J10-BB	K63-4	A 243L	COS AMG 16X TO CDU	24	29
J10-CC	K45-4	A 244R	COS AIG 16X S3 HI	24	31
J10-DD	K45-7	A 244L	COS AIG 16X TO CDU	24	33
J10-EE			SPARE CONTACT		
J10-FF			SPARE CONTACT		
J10-GG	J34-T	A1123W	GIMBAL LOCK LIGHT HI	20	40
J10-HH	TB17-12D	A1124	400 CPS 6V LO	20	7
J10-JJ	TB17-11F	A1156R	400 CPS 6V HI	20	43
J10-KK	TB17-12F	A1156L	400 CPS 6V LO	20	7
J10-LL			SPARE CONTACT		
J10-MM			SPARE CONTACT		
J10-NN	J27-A*	A 428R	3200 CPS 2V HI	20	48
J10-PP	J27-B*	A 428L	3200 CPS 2V LO	20	50

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
J11	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J11-A			SPARE CONTACT		
J11-B			SPARE CONTACT (DO NOT USE)		
J11-C	J26-D	A1197	+32 VDC PIP	20	620
J11-D	J26-F	A1199	+32 VDC, +120 VDC PIP RET.	20	621
J11-E	J26-E	A1198	+120 VDC PIP	20	622
J11-F	J25-P*	A 249W	IMU TEMP CONTR FAIL LIGHT HI	22	70
J11-G	E92B	A1137	0 VDC IMU (IMU TEMP CONTR FAIL LIGHT LO)	20	7
J11-H	J39-GG	A 251W	IMU DELAY LIGHT HI	24	73
J11-J	E92B	A 252	0 VDC IMU (IMU DELAY LIGHT LO)	24	7
J11-K			SPARE CONTACT		
J11-L			SPARE CONTACT		
J11-M			SPARE CONTACT		
J11-N	TB7-9C	A 255R	3200 CPS 2V FDBK HI	20	80
J11-P	TB7-10C	A 255L	3200 CPS 2V FDBK LO	20	83
J11-R	J41-F	A 256R	25.6 KC OPTICS HI	24	87
J11-S	J41-G	A 256L	25.6 KC OPTICS LO	24	89
J11-T	J41-D	A 257R	800 CPS 28V 5PCT L-90 DEG OPTICS HI	24	91
J11-U	J41-E	A 257L	800 CPS 28V 5PCT L-90 DEG OPTICS LO	24	92
J11-V	J41-B	A 258R	800 CPS 28V 1PCT HI (OPTICS)	24	94
J11-W	J41-C	A 258L	800 CPS 28V 1PCT LO (OPTICS)	24	96
J11-X	J27-F*	A 259R	25.6 KC HI IMU	24	98
J11-Y	J27-G*	A 259L	25.6 KC LO IMU	24	100
J11-Z			SPARE CONTACT		
J11-A*	J27-H*	A 260R	800 CPS 28V 1PCT HI IMU	24	62
J11-B*	J27-I*	A 260L	800 CPS 28V 1PCT LO IMU	24	64
J11-C*	J27-M*	A 280R	800 CPS 28V 5PCT L-90 DEG IMU HI	24	65
J11-D*	J27-N*	A 280L	800 CPS 28V 5PCT L-90 DEG IMU LO	24	67
J11-E*	J25-P	A 281R	800 CPS 28V 5PCT IMU WH PH A (HI)	24	69
J11-F*	J25-R	A 281Y	800 CPS 28V 5PCT IMU WH PH B (HI)	24	71
J11-G*	J25-S	A 281L	800 CPS 28V 5PCT IMU WH LO	24	72
J11-H*	J25-CC	A 282	TEMP CONTR SIG LO	20	74
J11-I*	J25-J	A 279	0 VDC CONDITIONING	24	75

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J11	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J11-J*			SPARE CONTACT		
J11-K*	J25-H	A 283	+20 VDC CONDITIONING	24	76
J11-M*	J25-FF	A 284	+2.5 VDC CONDITIONING HI	24	78
J11-N*	J25-GG	A 285	2.5 VDC CONDITIONING LO	24	81
J11-P*	J25-S*	A 286	+28 VDC AGC	20	84
J11-Q*	J25-T*	A 287	0 VDC IMU	20	86
J11-R*	TB12-19	A 288	+28 VDC STANDBY	20	88
J11-S*	TB13-12E	A 289	+28 VDC IMU	20	90
J11-T*	E92B	A 290	0 VDC IMU	20	7
J11-U*	J25-U*	A 291R	IG TORQ MTR HI	24	93
J11-V*	J25-V*	A 291L	IG TORQ MTR RET	24	95
J11-W*	J25-W*	A 292R	MG TORQ MTR HI	24	97
J11-X*	J25-X*	A 292L	MG TORQ MTR RET	24	99
J11-Y*	J25-Y*	A 293R	OG TORQ MTR HI	24	101
J11-Z*	J25-Z*	A 293L	OG TORQ MTR RET	24	102
J11-AA	~~J42E~~ ~~TB12-17~~	A1200	~~A 294~~ +28 VDC OPTICS	20	63
J11-BB	TB14-6	A 295	0 VDC OPTICS	20	7
J11-CC	J25-G*	A 296R	IMU PRESSURE MONITOR HI	24	66
J11-DD	J25-H*	A 296L	IMU PRESSURE MONITOR LO	24	68
J11-EE			SPARE CONTACT		
J11-FF			SPARE CONTACT		
J11-GG			SPARE CONTACT		
J11-HH			SPARE CONTACT		
J11-JJ			SPARE CONTACT		
J11-KK			SPARE CONTACT		
J11-LL	J25-AA	A 297	ACCEL TEMP (TELE)	24	77
J11-MM	J25-BB	A 298	IRIG TEMP (TELE)	24	79
J11-NN	J25-DD	A 299	HTR CURR (TELE)	24	82
J11-PP	J25-EE	A 300	BLWR CURR SENSOR (TELE)	24	85

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
J21	14 PIN CONNECTOR MS 3102A28-20S (1896853-200)				
J21-A	TB2-9	A 301	+28 VDC IMU BUS A	12	130
J21-B	TB2-10	A 302	+28 VDC IMU BUS A	12	130
J21-C	TB2-3	A 303	+28 VDC IMU BUS B	12	131
J21-D	TB2-2	A 304	+28 VDC IMU BUS B	12	131
J21-E	TB16-2	A 305	0 VDC IMU	12	7
J21-F	TB16-4	A 306	0 VDC ISS	12	7
J21-G	TB15-1	A 307	SHIELD GND	12	3
J21-H	TB4-10	A 267	+28 VDC AGC BUS A	12	132
J21-J			SPARE CONTACT		
J21-K	TB5-4	A 308	+28 VDC STANDBY BUS A	16	133
J21-L	TB5-3	A 309	+28 VDC STANDBY BUS B	16	134
J21-M	TB17-9D	A 268R	115V 400 CPS HI	20	135
J21-N	TB17-10D	A 268L	115V 400 CPS LO	20	136
J21-P	TB4-2	A 269	+28 VDC AGC BUS B	12	137
J22	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J22-A			SPARE CONTACT		
J22-B	E37B	A 310	CABLE W38 SHIELD GND	20	3
J22-C	J4-R	A1118	ERROR DETECT LIGHT (MAIN PANEL)	20	140
J22-D	J5-E*	A 96R	Y PIPA ERROR MONITOR	24	142
J22-E	J5-F*	A 96L	0 VDC IMU	24	144
J22-F	J5-G*	A 97R	Z PIPA ERROR MONITOR	24	147
J22-G	J5-H*	A 97L	0 VDC IMU	24	149
J22-H	K67-13	A 311R	CDU SIN AOG 1X LO	24	151
J22-J	TB11-7F	A 312	IMU SIN AOG 1X LO	24	153
J22-K	K67-10	A 311L	CDU SIN AOG 1X HI	24	156
J22-L	J4-A	A1116	IMU TEMP LIGHT (MAIN PANEL)	20	159
J22-M	J4-S	A 62R	WIRED SPARE	24	161
J22-N	J4-T	A 62L	WIRED SPARE	24	164

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J22	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J22-P	J4-Y	A 65R	WIRED SPARE	24	167
J22-R	J4-Z	A 65L	WIRED SPARE	24	171
J22-S	J4-B*	A 66R	WIRED SPARE	24	173
J22-T	J4-C*	A 66L	WIRED SPARE	24	174
J22-U	J4-W	A 64R	WIRED SPARE	24	175
J22-V	J4-X	A 64L	WIRED SPARE	24	176
J22-W	J4-U	A 63R	WIRED SPARE	24	177
J22-X	J4-V	A 63L	WIRED SPARE	24	179
J22-Y	J5-J	A 87	ERROR DETECT LIGHT HI	24	181
J22-Z	J5-C*	A 95R	X PIPA ERROR MONITOR	24	183
J22-A*	J5-D*	A 95L	0 VDC IMU	24	138
J22-B*	K44-7	A 313R	IG 1X RSVR COS HI (IMU)	24	139
J22-C*	K44-10	A 313L	IG 1X RSVR COS LO (IMU)	24	141
J22-D*	K44-13	A 314R	IG 1X RSVR SIN HI (IMU)	24	143
J22-E*	K44-16	A 314L	IG 1X RSVR SIN LO (IMU)	24	145
J22-F*	K59-7	A 315R	CDU COS AIG 16X HI	24	31
J22-G*	K59-4	A 315L	CDU COS AIG 16X LO	24	33
J22-H*	K60-13	A 316R	CDU SIN AIG 16X LO	24	53
J22-I*	K60-10	A 316L	CDU SIN AIG 16X HI	24	52
J22-J*	K43-10	A 317R	IG CDU MDA OUTPUT HI	24	154
J22-K*	K43-7	A 317Y	0 VDC POWER GND (IMU) C.T.	24	157
J22-M*	K43-4	A 317L	IG CDU MDA OUTPUT LO	24	162
J22-N*	K63-19	A 318R	MG 1X RSVR COS HI (IMU)	24	165
J22-P*	K63-16	A 318L	MG 1X RSVR COS LO (IMU)	24	168
J22-Q*	K63-13	A 319R	MG 1X RSVR SIN HI (IMU)	24	170
J22-R*	K63-10	A 319L	MG 1X RSVR SIN LO (IMU)	24	172
J22-S*	K49-4	A 320R	CDU COS AMG 16X HI	24	28
J22-T*	K49-7	A 320L	CDU COS AMG 16X LO	24	29
J22-U*	K49-10	A 321R	CDU SIN AMG 16X LO	24	51
J22-V*	K49-13	A 321L	CDU SIN AMG 16X HI	24	49
J22-W*	J9-CC	A 220	WHEELS DISABLE COMMAND	20	178
J22-X*	K67-19	A 323R	CDU COS AOG 1X HI	24	180

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J26	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J26-X*	K47-13	A 413L	MG CDU 1X ERROR SIGNAL LO	24	300
J26-Y*	K46-16	A 414R	MG CDU 1/2X ERROR SIGNAL HI	24	58
J26-Z*	K46-13	A 414L	MG CDU 1/2X ERROR SIGNAL LO	24	59
J26-AA			SPARE CONTACT		
J26-BB	K46-10	A 415R	MG CDU MDA TACH SIGNAL	24	34
J26-CC	K46-7	A 415L	MG CDU MDA INPUT RETURN	24	36
J26-DD	K46-4	A 415Y	MG CDU MDA SLEW SIGNAL	24	274
J26-EE	K68-7	A 416R	OG CDU 16X ERROR SIGNAL HI	24	275
J26-FF	K68-4	A 416L	OG CDU 16X ERROR SIGNAL LO	24	276
J26-GG	K50-16	A 417R	OG CDU 1X ERROR SIGNAL HI	24	278
J26-HH	K50-13	A 417L	OG CDU 1X ERROR SIGNAL LO	24	280
J26-JJ	K51-16	A 418R	OG CDU 1/2X ERROR SIGNAL HI	24	54
J26-KK	K51-13	A 418L	OG CDU 1/2X ERROR SIGNAL LO	24	56
J26-LL	K50-10	A 419R	OG CDU MDA TACH SIGNAL	24	38
J26-MM	K50-7	A 419L	OG CDU MDA INPUT RETURN	24	41
J26-NN	K50-4	A 419Y	OG CDU MDA SLEW SIGNAL	24	288
J26-PP			SPARE CONTACT		
J27	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J27-A	J3-EE	A1107R	3200 CPS GSE PWR SUP HI	20	301
J27-B	E48B	A 420	CABLE SHIELD GROUND	20	3
J27-C	J3-FF	A1107L	3200 CPS GSE PWR SUP LO	20	304
J27-D			SPARE CONTACT		
J27-E			SPARE CONTACT		
J27-F			SPARE CONTACT		
J27-G			SPARE CONTACT		
J27-H			SPARE CONTACT		
J27-J			SPARE CONTACT		
J27-K			SPARE CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J27	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J27-L			SPARE CONTACT		
J27-M	J38-A*	A 421	IG CDU MDA PLUS 28 VDC	20	310
J27-N	J33-A*	A 422	MG CDU MDA PLUS 28 VDC	20	311
J27-P	J32-Z	A 423	OG CDU MDA PLUS 28 VDC	20	312
J27-R			SPARE CONTACT		
J27-S	TB17-8A	A 424	CONDITION LAMP TEST	24	315
J27-T	J2-J	A1196L	800 CPS 28V 5 PERCENT IMU WHEELS LO	20	117
J27-U	J2-H	A1196Y	800 CPS 28V 5 PERCENT IMU WHEELS PH B	20	115
J27-V	J2-G	A1196R	800 CPS 28V 5 PERCENT IMU WHEELS PH A	20	113
J27-W	J40-A	A1176	+28 VDC STBY BUS A	20	320
J27-X	J46-A	A1177	+28 VDC STBY BUS B	20	322
J27-Y	J40-C	A1178	+28 VDC IMU BUS A	20	324
J27-Z	J46-C	A1179	+28 VDC IMU BUS B	20	325
J27-A*	J10-NN	A 428R	3200 CPS 2 V HI	20	48
J27-B*	J10-PP	A 428L	3200 CPS 2 V LO	20	50
J27-C*			SPARE CONTACT		
J27-D*			SPARE CONTACT		
J27-E*			SPARE CONTACT		
J27-F*	J11-X	A 259R	25.6 KC HI IMU	24	98
J27-G*	J11-Y	A 259L	25.6 KC LO IMU	24	100
J27-H*	J11-A*	A 260R	800 CPS 28 V 1 PCT HI IMU	24	62
J27-I*	J11-B*	A 260L	800 CPS 28 V 1 PCT LO IMU	24	64
J27-J*	E87B	A 432	ISS 0 VDC COMPUTER COMMON	20	7
J27-K*			SPARE CONTACT		
J27-M*	J11-C*	A 280R	800 CPS 28 V 5 PCT L-90 DEG IMU HI	24	65
J27-N*	J11-D*	A 280L	800 CPS 28 V 5 PCT L-90 DEG IMU LO	24	67
J27-P*			SPARE CONTACT		
J27-Q*	J33-I*	A 436W	MG CDU 1X RESOLVER LOAD	24	313
J27-R*	J38-I*	A 437W	IG CDU 1X RESOLVER LOAD	24	314
J27-S*	J32-I*	A 438W	OG CDU 1X RESOLVER LOAD	24	316
J27-T*	J32-A*	A 439W	OG CDU 16X RESOLVER LOAD	24	317
J27-U*	J40-F	A1180	0 VDC IMU	20	318

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J27	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J27-V*	J40-A*	A1181	+28 VDC AGC BUS A	20	319
J27-W*	J46-F*	A1182	+28 VDC AGC BUS B	20	321
J27-X*	J40-F*	A1183	+28 VDC STBY BUS B	20	323
J27-Y*			SPARE CONTACT		
J27-Z*	J8-V	A 155	MANUAL CDU MODE IND TO AGC	24	326
J27-AA	TB13-6B	A 440	LOCK CDU RELAY CONTROL	24	302
J27-BB	TB11-1B	A 441	FINE ALIGN RELAY CONTROL	24	303
J27-CC	J45-P*	A 442	COARSE ALIGN RELAY CONTROL	24	305
J27-DD	J45-Q*	A 443	ENTRY RELAY CONTROL	24	306
J27-EE	J45-R*	A 444	ZERO ENCODER RELAY CONTROL	24	307
J27-FF			SPARE CONTACT		
J27-GG			SPARE CONTACT		
J27-HH			SPARE CONTACT		
J27-JJ			SPARE CONTACT		
J27-KK	J39-CC	A 448	DAC INHIBIT SIGNAL	24	308
J27-LL	J8-U	A 154	ZERO ENCODER MODE IND TO AGC	24	309
J27-MM	K42-16	A 449R	IG CDU 1/2X ERROR SIGNAL HI	24	60
J27-NN	K42-13	A 449L	IG CDU 1/2X ERROR SIGNAL LO	24	61
J27-PP	K22-8	A 450	28 VDC FOR PIPA POWER SUPPLIES	20	267
J30	14 PIN CONNECTOR MS 3102A28-20SW (1896853-201)				
J30-A	TB3-9	A 451	+28 VDC OPTICS BUS A	14	1
J30-B	TB3-10	A 452	+28 VDC OPTICS BUS A	14	1
J30-C	TB3-3	A 453	+28 VDC OPTICS BUS B	14	351
J30-D	TB3-2	A 454	+28 VDC OPTICS BUS B	14	351
J30-E	TB14-4	A 455	0 VDC OPTICS	12	7
J30-F	J46-G	A1185	+28 VDC OPTICS BUS B	20	352
J30-G	TB15-16	A 976	SHIELD GROUND	12	3
J30-H	J40-G	A1184	+28 VDC OPTICS BUS A	20	353

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J30	14 PIN CONNECTOR MS 3102A28-20SW (1896853-201)				
J30-J	J40-B*	A1186	0 VDC OPTICS	20	354
J30-K	TB15-3	A1076	CABLE W45 SHIELD GROUND	16	3
J30-L	TB7-1ND	A1189	27 VDC RLP LO	20	355
J30-M	TB13-3B	A1190	27 VDC RLP LO OSS ONLY	20	356
J30-N			SPARE NO. 16 CONTACT		
J30-P			SPARE NO. 12 CONTACT		
J31	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J31-A			SPARE CONTACT		
J31-B	E50B	A 457	CABLE W46 SHIELD GROUND	20	3
J31-C	SHLD A471	A 471A	WIRED SPARE	22	358
J31-D	R2-1	A1127	6 VOLT 400 CPS OSS LOAD	20	360
J31-E	TB6-6D	A1128	6 VOLT 400 CPS LAMP POWER LO	20	7
J31-F			SPARE CONTACT		
J31-G			SPARE CONTACT		
J31-H			SPARE CONTACT		
J31-J			SPARE CONTACT		
J31-K			SPARE CONTACT		
J31-L			SPARE CONTACT		
J31-M			SPARE CONTACT		
J31-N			SPARE CONTACT		
J31-P			SPARE CONTACT		
J31-R			SPARE CONTACT		
J31-S			SPARE CONTACT		
J31-T			SPARE CONTACT		
J31-U			SPARE CONTACT		
J31-V			SPARE CONTACT		
J31-W			SPARE CONTACT		
J31-X			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J41	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J41-P•	TB7-6C	A 650L	TRUNNION CDU 1/4X COS LO	24	226
J41-Q•	J31-M•	A 464R	WIREO SPARE	24	368
J41-R•	J31-N•	A 464L	WIRED SPARE	24	369
J41-S•	J31-P•	A 465R	TRUNNION RESOLVER LOAO 1/2X S2	24	370
J41-T•	J31-Q•	A 465L	TRUNNION RESOLVER LOAO 1/2X S4	24	371
J41-U•	J44-T	A 651	WIRED SPARE	24	472
J41-V•	J44-W	A 652	ZERO DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	473
J41-W•	J44-X	A 653	25 DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	474
J41-X•			SPARE CONTACT		
J41-Y•	J24-C•	A 361R	SXT TRUNNION 1X RESOLVER ERROR HI	24	221
J41-Z•	J24-O•	A 361L	SXT TRUNNION 1X RESOLVER ERROR LO	24	223
J41-AA			SPARE CONTACT		
J41-BB	J24-K•	A 364R	WIRED SPARE	22	232
J41-CC	J24-M•	A 364L	WIRED SPARE	22	233
J41-DD	J24-U•	A 368R	WIREO SPARE	22	241
J41-EE	J24-V•	A 368L	WIRED SPARE	22	242
J41-FF	J24-HH	A 371L	SXT SHAFT 1/2X RESOLVER ERROR LO	24	231
J41-GG	J24-BB	A 371R	SXT SHAFT 1/2X RESOLVER LOAD	24	219
J41-HH	J24-AA	A 373W	SXT SHAFT 1/2X RESOLVER ERROR HI	24	216
J41-JJ			SPARE CONTACT		
J41-KK			SPARE CONTACT		
J41-LL			SPARE CONTACT		
J41-MM			SPARE CONTACT		
J41-NN			SPARE CONTACT		
J41-PP			SPARE CONTACT		
J42	61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)				
J42-A			SPARE CONTACT		
J42-B	E638	A 654	CABLE W57 SHIELD GROUND	20	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J42	61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)				
J42-C			SPARE CONTACT		
J42-D	J43-M	A1143	+28 VOC OPTICS	20	478
J42-E			SPARE CONTACT		
J42-F			SPARE CONTACT		
J42-G			SPARE CONTACT		
J42-H			SPARE CONTACT		
J42-J			SPARE CONTACT		
J42-K			SPARE CONTACT		
J42-L			SPARE CONTACT		
J42-M			SPARE CONTACT		
J42-N			SPARE CONTACT		
J42-P			SPARE CONTACT		
J42-R			SPARE CONTACT		
J42-S			SPARE CONTACT		
J42-T			SPARE CONTACT		
J42-U			SPARE CONTACT		
J42-V			SPARE CONTACT		
J42-W			SPARE CONTACT		
J42-X			SPARE CONTACT		
J42-Y	J5-J•	A 98R	TRUNN COU MDA HI (TEST)	24	490
J42-Z	J5-K•	A 98L	TRUNN CDU MDA LO (TEST)	24	491
J42-A•	J43-R•	A 655R	WIRED SPARE	24	475
J42-B•	J43-S•	A 655L	WIREO SPARE	24	476
J42-C•	J43-T•	A 656R	WIREO SPARE	24	477
J42-D•	J43-U•	A 656L	WIRED SPARE	24	479
J42-E•	J11AA ~~TB12-17~~	A12004A1116	+28 VDC OPTICS HI	20	63
J42-F•	J5-M•	A 99R	SHAFT COU MDA HI (TEST)	24	480
J42-G•	J5-N•	A 99L	SHAFT CDU MDA LO (TEST)	24	481
J42-H•	J5-N	A 89R	SXT TRUNN MDA OUTPUT HI (TEST)	24	482
J42-I•	J5-P	A 89L	SXT TRUNN MOA OUTPUT LO (TEST)	24	483
J42-J•	J5-X	A 93R	SXT SHAFT MOA OUTPUT HI (TEST)	24	484
J42-K•	J5-Y	A 93L	SXT SHAFT MOA OUTPUT LO (TEST)	24	485

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J42	61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)				
J42-M•	J5-P•	A 100R	DIRECT SHAFT CONTROL HI (TEST)	24	486
J42-N•	J5-Q•	A 100L	DIRECT SHAFT CONTROL LO (TEST)	24	487
J42-P•	J5-R•	A 101R	DIRECT TRUNN CONTROL HI (TEST)	24	488
J42-Q•	J5-S•	A 101L	DIRECT TRUNN CONTROL LO (TEST)	24	489
J42-R•			SPARE CONTACT		
J42-S•			SPARE CONTACT		
J42-T•	TB17-18C	A 688R	TRUNNION COU 1/4 X SIN HI	24	228
J42-U•	TB17-17C	A 688L	TRUNNION CDU 1/4 X SIN LO	24	230
J42-V•			SPARE CONTACT		
J42-W•	J31-V•	A 469R	TRUNNION COU 16X SIN HI	24	376
J42-X•	J31-U•	A 469L	TRUNNION COU 16X SIN LO	24	375
J42-Y•	J31-X•	A 470R	TRUNNION CDU 16X COS HI	24	378
J42-Z•	J31-W•	A 470L	TRUNNION CDU 16X COS LO	24	377
J42-AA	J24-A•	A 360R	SXT AT 64X RESOLVER COSINE HI	24	215
J42-BB	J24-B•	A 360L	SXT AT 64X RESOLVER COSINE LO	24	218
J42-CC	J24-Y	A 359L	SXT AT 64X RESOLVER SINE LO	24	243
J42-DD	J24-Z	A 359R	SXT AT 64X RESOLVER SINE HI	24	244
J42-EE	J24-R•	A 366L	SXT AS 16X RESOLVER COSINE HI	24	240
J42-FF	J24-Q•	A 366R	SXT AS 16X RESOLVER COSINE LO	24	239
J42-GG	J24-N•	A 365R	SXT AS 16X RESOLVER SINE HI	24	235
J42-HH	J24-P•	A 365L	SXT AS 16X RESOLVER SINE LO	24	237
J42-JJ			SPARE CONTACT		
J42-KK			SPARE CONTACT		
J42-LL			SPARE CONTACT		
J42-MM			SPARE CONTACT		
J42-NN			SPARE CONTACT		
J42-PP			SPARE CONTACT		
J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				
J43-A			SPARE CONTACT		
J43-B			SPARE CONTACT		
J43-C			SPARE CONTACT		
J43-D			SPARE CONTACT		
J43-E	TB6-3D	A1054W	400 CPS VARIABLE LAMP SUPPLY HI	20	206
J43-F	K3-10	A1113	IMU POWER 28 VOC RETURN (0 VOC)	20	495
J43-G	E65B	A 659	OPTICS SHIELD GROUND (FROM GNIC)	20	3
J43-H			SPARE CONTACT		
J43-J			SPARE CONTACT		
J43-K	J4-JJ	A 80R	+28 VDC FROM NAA (MIN IMPULSE ENABLE)	24	465
J43-L	J4-KK	A 80L	0 VDC FROM NAA	24	466
J43-M	J42-D	A1143	+28 VDC OPTICS	20	478
J43-N	P2-B•	A1153	SPACE CRAFT LAMP TEST	20	498
J43-P	TB12-A0	A 661	OPTICS 28 VOC HI (FROM PSA)	20	1
J43-R			SPARE CONTACT		
J43-S	K8-12	A 662W	6 VOLT 400 CPS LO	22	499
J43-T			SPARE CONTACT		
J43-U	K8-10	A1133W	6 VOLT 400 CPS LO	20	7
J43-V	TB14-8	A 664	OPTICS POWER 28 VDC RETURN	20	7
J43-W	P6-B	A 665	SXT POWER SWITCH FROM COMPUTER	24	501
J43-X	J35-Q•	A 559	WIRED SPARE	24	424
J43-Y	T813-13F	A 666W	800 CPS 5 PERCENT SXT POWER IN HI	22	185
J43-Z	P6-O	A 667	26V 400 CPS	20	502
J43-A•	E65B	A 668	CABLE W58 SHIELD GROUND	20	3
J43-B•	P6-W	A 669	STEP OOWN R	24	492
J43-C•	K8-3	A 670	M ANO OV AND INTEGRAL LIGHTING PWR 28 VDC HI	20	250
J43-O•	P6-P	A 671	STEP UP R	24	493
J43-E•	P2-E	A 672	0.5V 400 CPS ZERO PHASE	24	494
J43-F•	P2-H	A 673	0.5V 400 CPS PI PHASE	24	496
J43-G•	J2-R•	A 31W	IRIG TEMP BRIDGE AMP PIN 6	24	121
J43-H•	J2-S•	A 32W	ACCEL TEMP BRIOGE AMP PIN 6	24	122
J43-I•	P6-Z	A 674	MARK BUTTON TO COMPUTER (WIPER)	20	497

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J45	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J45-B*			SPARE CONTACT		
J45-C*			SPARE CONTACT		
J45-D*			SPARE CONTACT		
J45-E*			SPARE CONTACT		
J45-F*			SPARE CONTACT		
J45-G*			SPARE CONTACT		
J45-H*	E87B	A 706	AGC COMMON	20	7
J45-I*			SPARE CONTACT		
J45-J*	J8-FF	A 185	MODE RELAY COMMON	24	520
J45-K*			SPARE CONTACT		
J45-M*			SPARE CONTACT		
J45-N*	E87B	A 707	0 VDC AGC	20	7
J45-P*	J27-CC	A 442	COARSE ALIGN RELAY CONTROL	24	305
J45-Q*	J27-DD	A 443	ENTRY RELAY CONTROL	24	306
J45-R*	J27-EE	A 444	ZERO ENCODER RELAY CONTROL	24	307
J45-S*	TB13-12A	A 708	+28 VDC IMU	20	90
J45-T*			SPARE CONTACT		
J45-U*			SPARE CONTACT		
J45-V*			SPARE CONTACT		
J45-W*	TB17-5B	A 709R	OG CDU 1X ERROR SIG (HI)	24	278
J45-X*	TB17-6B	A 709L	OG CDU ERROR SIG RET	24	280
J45-Y*	TB11-5E	A 710L	28 VOLT RMS 800 CPS 1 PERCENT LO	24	269
J45-Z*	TB11-3E	A 710R	28 VOLT RMS 800 CPS 1 PERCENT HI	24	268
J45-AA			SPARE CONTACT		
J45-BB	TB17-1B	A 711R	IG CDU 1X ERROR SIG (HI)	24	290
J45-CC	TB17-2B	A 711L	IG CDU ERROR SIG RET	24	291
J45-DD	TB17-3B	A 712R	INPUT YAW (MG CDU 1X ERROR) HI	24	299
J45-EE	TB17-4B	A 712L	ATTITUDE ERROR (MG CDU 1X ERROR) LO	24	300
J45-FF	J8-M	A 191W	ATTITUDE CONTR MODE IND TO AGC	24	518
J45-GG	TB12-20	A 713	+28 VDC MDV	20	519
J45-HH			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
J46	31 PIN CONNECTOR MS 3102A36-9SW (1896854-091)				
J46-A	J7-E*	A 130	+28 VDC STBY BUS B	20	322
J46-A	J27-X	A1177	+28 VDC STBY BUS B	20	322
J46-B			SPARE CONTACT		
J46-C	J7-F*	A 131	+28 VDC IMU BUS B	20	325
J46-C	J27-Z	A1179	+28 VDC IMU BUS B	20	325
J46-D	TB5-3	A 714	+28 VDC STBY BUS B	16	134
J46-E	TB16-9	A 715	0 VDC IMU	16	7
J46-F			SPARE CONTACT		
J46-G	J7-HH	A 152	+28 VDC OPTICS BUS B	20	352
J46-G	J30-F	A1185	+28 VDC OPTICS BUS B	20	352
J46-H			SPARE CONTACT		
J46-I	TB2-5	A 716	+28 VDC IMU BUS B	12	131
J46-J	TB2-4	A 717	+28 VDC IMU BUS B	12	131
J46-K	TB3-5	A 718	+28 VDC OPTICS BUS B	14	351
J46-L	TB3-4	A 719	+28 VDC OPTICS BUS B	14	351
J46-M	TB4-5	A 720	+28 VDC AGC BUS B	14	137
J46-N	TB4-4	A 721	+28 VDC AGC BUS B	14	137
J46-O			SPARE CONTACT		
J46-P			SPARE CONTACT		
J46-R			SPARE CONTACT		
J46-S	TB16-12	A 722	0 VDC IMU	12	7
J46-T	TB16-14	A 723	0 VDC IMU	12	7
J46-U	TB14-12	A 724	0 VDC OPTICS	12	7
J46-V	TB10-6	A 725	0 VDC AGC	12	7
J46-W			SPARE CONTACT		
J46-X			SPARE CONTACT		
J46-Y			SPARE CONTACT		
J46-Z			SPARE CONTACT		
J46-A*			SPARE CONTACT		
J46-B*			SPARE CONTACT		
J46-C*			SPARE CONTACT		
J46-D*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J46	31 PIN CONNECTOR MS 3102A36-9SW (1896854-091)				
J46-E*			SPARE CONTACT		
J46-F*	J7-G*	A 132	+28 VDC AGC BUS B	20	321
J46-F*	J27-W*	A1182	+28 VDC AGC BUS B	20	321
J47	19 PIN CONNECTOR MS3127E14-19S (1897116-190)				
J47-A			SPARE CONTACT		
J47-B			SPARE CONTACT		
J47-C	P2-C*	A1168	TRACKER ON IND TO AGC	20	521
J47-D	J1-T	A1170	OPTICS ZERO ENCODER INDICATION	20	16
J47-E	P3-A	A1169	OPTICS MODE SWITCH IND TO AGC	20	522
J47-F	K4-6	A1166	AGC COMMON	20	523
J47-G	J10-A*	A1192	GIMBAL LOCK LIGHT HI	20	27
J47-H			SPARE CONTACT		
J47-J	TB6-6E	A1191	400 CPS SHIELD GROUND BUS	20	7
J47-K	R2-1	A1194	400 CPS LO BUS	20	360
J47-L	TB6-6F	A1195	400 CPS LO BUS	20	7
J47-M			SPARE CONTACT		
J47-N			SPARE CONTACT		
J47-P	J1-W	A1171	MARK	20	22
J47-R	J1-X	A1172	NOT MARK	20	23
J47-S			SPARE CONTACT		
J47-T			SPARE CONTACT		
J47-U			SPARE CONTACT		
J47-V			SPARE CONTACT		
K1	RELAY (1016031-1)				

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K1	RELAY (1016031-1)				
K1-A01	TB2-1	A 726	ISS OPERATE POWER LINE B HI	12	131
K1-A02	K2-A01	A 727	28 VDC BUS A - BUS B SELECT	12	130
K1-A02	K1-B02	AA 1	28 VDC BUS A - BUS B SELECT	12	130
K1-B01	TB2-6	A 728	ISS OPERATE POWER LINE A HI	12	130
K1-B02	K1-A02	AA 1	28 VDC BUS A - BUS B SELECT	12	130
K1-X01	J7-Y*	A 143	AGE POWER TRANSFER B	20	533
K1-X01	K6-4	A 729	AGE POWER TRANSFER LINE B	20	533
K1-X02	J7-Z*	A 144	AGE POWER TRANSFER LO	20	534
K1-X02	K6-11	A 730	AGE POWER TRANSFER LO	20	534
K2	RELAY (MS24140-D2)				
K2-11	J7-EE	A 149	27 VDC HI ISS OPERATE IND	20	528
K2-12	TB7-12F	A1097	27 VDC RELAY AND LAMP POWER HI	20	525
K2-13			SPARE N.C. CONTACT		
K2-14			SPARE N.C. CONTACT		
K2-A01	K1-A02	A 727	28 VDC BUS A - BUS B SELECT	12	130
K2-A02	XF2-1	A 731	AGE 28 VDC VARIABLE POWER HI	12	524
K2-X01	J7-FF	A 150	27 VDC HI ISS OPERATE	20	529
K2-X01	TB1-4	A 732	AGE 28 VDC VARIABLE POWER HI	20	529
K2-X02	TB6-7D	A 733	RELAY AND LAMP POWER LO	20	355
K3	RELAY (1015914-001)				
K3-1			SPARE N.C. CONTACT		524
K3-2	K6-5	A 734	28 VDC STANDBY POWER LINE A - LINE B SELECT	T6	133
K3-3	XF1-1	A 735	AGE 28 VDC VARIABLE POWER HI	16	524
K3-4	J7-DD	A 148	27 VDC HI ISS STANDBY	24	527

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
K10	STEPPER SWITCH 52 POSITION (10160l4-001) SEE P1 THRU P11 (MATING CONNECTORS)				
K17	RELAY (1015914-00)				
K17-1			SPARE N.C. CONTACT		572
K17-2	TB7-12D	A 763	27VDC RELAY AND LAMP POWER HI	20	525
K17-3	K18-4	A 764	K18 COIL (K403 MECH)	20	572
K17-3	K29-4	A 772	K29 COIL (K404 MECH)	20	572
K17-4	TB11-20B	A 739	OPTICS 28 VDC HI	20	1
K17-4	TB12-40	A 765	OPTICS 28VDC HI	20	1
K17-5			SPARE WIPER CONTACT		
K17-6			SPARE N.O. CONTACT		
K17-7			SPARE N.C. CONTACT		
K17-8			SPARE N.C. CONTACT		
K17-9			SPARE N.O. CONTACT		
K17-10			SPARE WIPER CONTACT		
K17-11	TB12-39	A 766	COSECANT RELAY COMMAND (TO PSA)	20	8
K17-11	TB12-22	A 777	SIMULATED COSECANT RELAY LO	20	8
K17-12			SPARE WIPER CONTACT		
K17-13			SPARE N.O. CONTACT		
K17-14			SPARE N.C. CONTACT		
K18	RELAY (1015914-001)				
K18-1	J1-U*	A 7L	800 CPS VAR OPTICS TEST VOLTAGE LO	24	19
K18-1	K18-9	AA150	SIMULATED INPUT LO	24	19
K18-2			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K18	RELAY (1015914-001)				
K18-3	K19-3	A 769L	SIMULATED INPUT LO	20	19
K18-3	K18-6	AA151	SIMULATED INPUT LO	24	19
K18-4	K17-3	A 764	K18 COIL HI (K403 MECH)	20	572
K18-4	TB12-4	A 770	K18 COIL HI (K403 MECH)	20	572
K18-5	K19-6	A 769R	SIMULATED INPUT HI	20	17
K18-6	K18-3	AA151	SIMULATED INPUT LO	24	19
K18-7	J1-T*	A 7R	800 CPS VAR OPTICS TEST VOLTAGE HI	24	17
K18-7	K18-13	AA152	SIMULATED INPUT HI	24	17
K18-8	K19-12	A 767L	AS REQUIRED INPUT (RSVR AMP PSA)	20	573
K18-8	K18-12	AA153	AS REQUIRED INPUT (RSVR AMP PSA)	24	573
K18-9	K29-9	A 768L	AT REQUIRED INPUT (RSVR AMP PSA)	20	19
K18-9	K18-1	AA150	AT REQUIRED INPUT (RSVR AMP PSA)	24	19
K18-10	K19-9	A 767R	AS REQUIRED INPUT (RSVR AMP PSA)	20	573
K18-11	TB7-13C	A 771	27V DC RELAY AND LAMP POWER LO	20	355
K18-12	K18-8	AA153	AS RESOLVED INPUT (RSVR AMP PSA)	24	573
K18-13	K29-13	A 768R	AT RESOLVED INPUT (RSVR AMP PSA)	20	17
K18-13	K18-7	AA152	SIMULATED INPUT HI	24	17
K18-14			SPARE N.C. CONTACT		573
K19	RELAY (1015837-001)				
K19-1	J1-S*	A 6	SHAFT LOOP TEST CONTROL	20	15
K19-2	K30-2	A 774	27V DC RELAY AND LAMP POWER LO	20	355
K19-2	TB7-13D	A 775	27V DC RELAY AND LAMP POWER LO	20	355
K19-3	K18-3	A 769L	SIMULATED INPUT LO	20	19
K19-4	K30-15	A1147L	AS DIRECT INPUT LO (PRE-AMP PSA)	20	426
K19-5	J44-G	A 680L	AS DIRECT CONTROL LO (G. AND N.)	24	426
K19-6	K18-5	A 769R	SIMULATED INPUT HI	20	17
K19-7	K30-17	A1147R	AS DIRECT INPUT HI (PRE AMP PSA)	20	425
K19-8	J44-F	A 680R	AS DIRECT CONTROL HI (G. AND N.)	24	425

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K19	RELAY (1015837-001)				
K19-9	K18-10	A 767R	AS RESOLVED INPUT (RSVR AMP PSA)	20	573
K19-10	K30-18	A1146L	AS RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K19-11	J44-E	A 679L	AS RESOLVED TRACKER LO (G. AND N.)	24	428
K19-11	K30-11	A 773	AS RESOLVED TRACKER LO (G. AND N.)	20	428
K19-12	K18-8	A 767L	AS RESOLVED INPUT (RSVR AMP PSA)	20	573
K19-13	K30-20	A1146R	AS RESOLVED INPUT HI (RSVR AMP PSA)	20	427
K19-14	J44-D	A 679R	AS RESOLVED TRACKER HI (G. AND N.)	24	427
K19-15	J36-J*	A 564L	AT DIRECT INPUT LO (PRE-AMP PSA)	24	430
K19-15	K30-4	A1145L	AT DIRECT INPUT LO (PRE-AMP PSA)	20	430
K19-16	J36-I*	A 564R	AT DIRECT INPUT HI (PRE-AMP PSA)	24	429
K19-17	K30-7	A1145R	AT DIRECT INPUT HI (PRE-AMP PSA)	20	429
K19-18	J36-M*	A 565L	AT RESOLVED INPUT LO (RSVR AMP PSA)	24	428
K19-18	K30-10	A1148L	AT RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K19-19	J36-K*	A 565R	AT RESOLVED INPUT HI (RSVR AMP PSA)	24	431
K19-20	K30-13	A1148R	AT RESOLVED INPUT HI (RSVR AMP PSA)	20	431
K20	RELAY (1015914-001)				
K20-1	J44-CC	A 703	ZERO OPTICS RELAY COMMAND (FROM GNIC)	20	471
K20-2	J1-BB	A 12	OPT TEST ZEROING RELAY LO	24	9
K20-3	J41-R	A 647	ZERO OPTICS RELAY COMMAND (TO PSA)	24	471
K20-4	TB12-8	A 776	K20 COIL (K407 MECH)	20	24
K20-5	J41-P	A 646	COSECANT RELAY COMMAND (TO PSA)	24	470
K20-6	TB12-21	A1150	SIMULATED COSECANT RELAY LO	20	574
K20-7	J44-K	A 682	COSECANT RELAY COMMAND (FROM GNIC)	24	470
K20-8	J43-K*	A 675L	800 CPS 1 PERCENT OPTICS LO	22	200
K20-9	J1-Z*	A 10L	VAR. VOLTAGE CONTR INPUT LO	24	26
K20-10	TB13-18E	A 810L	28 V 800 CPS 1 PERCENT OPTICS LO	22	200
K20-11	TB7-13E	A 779	27 VDC RELAY AND LAMP POWER LO	20	355
K20-12	TB13-17E	A 810R	28 V 800 CPS 1 PERCENT OPTICS HI	22	198

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K20	RELAY (1015914-001)				
K20-13	J1-Y*	A 10R	VAR. VOLTAGE CONTR INPUT HI	24	25
K20-14	J43-J*	A 675R	800 CPS 1 PERCENT OPTICS HI	22	198
K22	RELAY (1015837-001)				
K22-1	J9-H*	A 202	PIPA LOOPS INHIBIT COMMAND	20	553
K22-2	TB7-20D	A 784	27 VDC RELAY AND LAMP POWER LO	20	355
K22-2	K22-4	AA 7	27 VDC RELAY AND LAMP POWER LO	24	355
K22-3	J9-G*	A 201	PIPA LOOPS INHIBIT IND	20	552
K22-4	K22-2	AA 7	27 VDC RELAY AND LAMP POWER LO	24	355
K22-5			SPARE N.C. CONTACT		355
K22-6			SPARE N.O. CONTACT		
K22-7	J25-PP	A 396	28 VDC HI	20	267
K22-8	J27-PP	A 450	28 VDC FOR PIPA POWER SUPPLIES	20	267
K22-9			SPARE N.O. CONTACT		
K22-10			SPARE WIPER CONTACT		
K22-11			SPARE N.C. CONTACT		
K22-12			SPARE N.O. CONTACT		
K22-13			SPARE WIPER CONTACT		
K22-14			SPARE N.C. CONTACT		
K22-15			SPARE N.O. CONTACT		
K22-16			SPARE WIPER CONTACT		
K22-17			SPARE N.C. CONTACT		
K22-18			SPARE N.O. CONTACT		
K22-19			SPARE WIPER CONTACT		
K22-20			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K25 RELAY (1015837-001)				
K25-1	P1-V	A 956	K10 STEP. SW. OFF-NORM. CONT., HOME POS.	24	575
K25-1	K25-3	AA 10	K10 STEP. SW. OFF-NORM. CONT., HOME POS.	24	575
K25-2	TB7-15D	A 789	27 VDC RELAY AND LAMP POWER LO	20	355
K25-3	K25-1	AA 10	K10 STEP. SW. OFF-NORM CONT., HOME POS.	24	575
K25-4	K7-4	A 757	CONT. TEST ENABLE (28 VDC)	20	550
K25-4	P1-U	A 954	CONT. TEST ENABLE (28 VDC TO OFF-NORM CONT)	24	550
K25-5			SPARE N.C. CONTACT		
K25-6			SPARE N.O. CONTACT		
K25-7	P1-W	A 957	K10 STEP. SW OFF-NORM CONT. (NOT HOME POS)	24	576
K25-8	P1-C	A 952	K10 STEP. SW INTERUPTER CONTACT	24	577
K25-9			SPARE N.O. CONTACT		
K25-10			SPARE WIPER CONTACT		
K25-11			SPARE N.C. CONTACT		
K25-12			SPARE N.O. CONTACT		
K25-13			SPARE WIPER CONTACT		
K25-14			SPARE N.C. CONTACT		
K25-15			SPARE N.O. CONTACT		
K25-16			SPARE WIPER CONTACT		
K25-17			SPARE N.C. CONTACT		
K25-18			SPARE N.O. CONTACT		
K25-19			SPARE WIPER CONTACT		
K25-20			SPARE N.C. CONTACT		
	K26 RELAY (1015914-001)				
K26-1	TB12-8	A1160	K20 COIL (K407 MECH) CONTROL	20	24
K26-2			SPARE N.O. CONTACT		
K26-3	J1-X*	A1161	OPTICS TEST COMMAND	20	24
K26-4	TB12-16	A1164	SCT MDA DISABLE HI	20	18
K26-5	TB6-16B	A1159	OPTICS +28 VDC	20	187

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K26	RELAY (1015914-001)				
K26-6			SPARE N.O. CONTACT		
K26-7	TB6-11B	A1158	SCT MOTOR CONTROL CT (+28 VDC)	20	187
K26-8			SPARE N.C. CONTACT		578
K26-9			SPARE N.O. CONTACT		
K26-10			SPARE WIPER CONTACT		578
K26-11	TB12-15	A1165	SCT MDA DISABLE LO	20	20
K26-12			SPARE WIPER CONTACT		579
K26-13			SPARE N.O. CONTACT		
K26-14			SPARE N.C. CONTACT		579
	K27 RELAY (1015914-001)				
K27-1	J44-AA	A 701W	TRUNNION DEAD ZONE IN	24	11
K27-2	K28-2	A 790	OPTICS 28 VDC HI	20	1
K27-3	J1-DD	A 1WW	+28 V VDC OPTICS SWITCHED	22	11
K27-3	J31-MM	A1141	TRUNNION CDU MOTOR CONTROL WINDING C.T.	20	11
K27-4	TB12-12	A 791	K27 COIL (K406 MECH)	20	13
K27-4	K27-5	AA158	27 VDC HI	24	13
K27-5	K27-4	AA158	27 VDC HI	24	13
K27-6	J1-P	A1144	OPTICS TEST LATCH VOLTAGE	20	14
K27-6	K28-6	A1151	27 VDC HI (TRUNNION TEST)	20	14
K27-7			SPARE N.C. CONTACT		13
K27-8			SPARE N.C. CONTACT		
K27-9			SPARE N.O. CONTACT		
K27-10			SPARE WIPER CONTACT		
K27-11	TB7-14B	A 792	27 VDC RELAY AND LAMP POWER LO	20	355
K27-12			SPARE WIPER CONTACT		
K27-13			SPARE N.O. CONTACT		
K27-14			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K28 RELAY (1015914-001)				
K28-1	J44-BB	A 702W	SHAFT DEAD ZONE IN	24	10
K28-2	K27-2	A 790	OPTICS 28 VDC HI	20	1
K28-2	TB11-20A	A 793	OPTICS 28 VDC HI	20	1
K28-3	J1-CC	A 13W	+28 VDC OPTICS SWITCHED	22	10
K28-3	J37-JJ	A1140	SHAFT CDU MOTOR CONTROL WINDING C.T.	20	10
K28-4	TB12-14	A 795	K28 COIL (K405 MECH)	20	12
K28-4	K28-5	AA159	27 VDC HI	24	12
K28-5	K28-4	AA159	27 VDC HI	24	12
K28-6	K27-6	A1151	27 VDC HI (SHAFT TEST)	20	14
K28-7			SPARE N.C. CONTACT		12
K28-8			SPARE N.C. CONTACT		
K28-9			SPARE N.O. CONTACT		
K28-10			SPARE WIPER CONTACT		
K28-11	TB7-14C	A 796	27 VDC RELAY AND LAMP POWER LO	20	355
K28-12			SPARE WIPER CONTACT		
K28-13			SPARE N.O. CONTACT		
K28-14			SPARE N.C. CONTACT		
	K29 RELAY (1015914-001)				
K29-1	K29-9	AA154	AT RESOLVED INPUT (RSVR AMP PSA)	24	19
K29-2			SPARE N.O. CONTACT		
K29-3	K30-3	A 798L	SIMULATED INPUT LO	22	19
K29-3	K29-6	AA155	SIMULATED INPUT LO	24	19
K29-4	K17-3	A 772	K29 COIL (K404 MECH)	20	572
K29-4	TB12-2	A 799	K29 COIL (K404 MECH)	20	572
K29-5	K30-6	A 798R	SIMULATED INPUT HI	22	17
K29-6	K29-3	AA155	SIMULATED INPUT LO	24	19
K29-7	K29-13	AA156	AT RESOLVED INPUT (RSVR AMP PSA)	24	17
K29-8	K29-12	AA157	AT RESOLVED INPUT	24	580

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K29	RELAY (1015914-001)				
K29-8	K30-12	A1149R	AT RESOLVED INPUT	20	580
K29-9	K18-9	A 768L	AT RESOLVED INPUT (RSVR AMP PSA)	20	19
K29-9	K29-1	AA154	AT RESOLVED INPUT (RSVR AMP PSA)	24	19
K29-10	K30-9	A1149L	AT RESOLVED INPUT	20	580
K29-11	TB7-13B	A 800	27 VDC RELAY AND LAMP POWER LO	20	355
K29-12	K29-8	AA157	AT RESOLVED INPUT	24	580
K29-13	K18-13	A 768R	AT RESOLVED INPUT (RSVR AMP PSA)	20	17
K29-13	K29-7	AA156	AT RESOLVED INPUT (RSVR AMP PSA)	24	17
K29-14			SPARE N.C. CONTACT		580
	K30 RELAY (1015837-001)				
K30-1	J1-V*	A 8	TRUNNION LOOP TEST CONTROL	20	21
K30-2	K19-2	A 774	27 VDC RELAY AND LAMP POWER LO	20	355
K30-3	K29-3	A 798L	SIMULATED INPUT LO	22	19
K30-4	K19-15	A1145L	AT DIRECT INPUT LO (PRE-AMP PSA)	20	430
K30-5	J44-J	A 681L	AT DIRECT CONTROL LO (G. AND N.)	24	430
K30-6	K29-5	A 798R	SIMULATED INPUT HI	22	17
K30-7	K19-17	A1145R	AT DIRECT INPUT HI (PRE-AMP PSA)	20	429
K30-8	J44-H	A 681R	AT DIRECT CONTROL HI (G. AND N.)	24	429
K30-9	K29-10	A1149L	AT RESOLVED INPUT	20	580
K30-10	K19-18	A1148L	AT RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K30-11	K19-11	A 773	AS RESOLVED TRACKER LO (G. AND N.)	20	428
K30-12	K29-8	A1149R	AT RESOLVED INPUT	20	580
K30-13	K19-20	A1148R	AT RESOLVED INPUT HI (RSVR AMP PSA)	20	431
K30-14	J44-C	A 678W	AT RESOLVED TRACKER HI (G. AND N.)	24	431
K30-15	J36-F*	A 562L	AS DIRECT INPUT LO (PRE-AMP PSA)	24	426
K30-15	K19-4	A1147L	AS DIRECT INPUT LO (PRE-AMP PSA)	20	426
K30-16	J36-E*	A 562R	AS DIRECT INPUT HI (PRE-AMP PSA)	24	425
K30-17	K19-7	A1147R	AS DIRECT INPUT HI (PRE-AMP PSA)	20	425

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) K30	RELAY (1015837-001)				
K30-18	J36-H•	A 563L	AS RESOLVED INPUT LO (RSVR AMP PSA)	24	428
K30-18	K19-10	A1146L	AS RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K30-19	J36-G•	A 563R	AS RESOLVED INPUT HI (RSVR AMP PSA)	24	427
K30-20	K19-13	A1146R	AS RESOLVED INPUT HI (RSVR AMP PSA)	20	427
K38	RELAY (1015837-001)				
K38-1	K54-15	A 834	K38 COIL HI (K346 MECH)	20	581
K38-2	K54-2	A 835	27 VDC RELAY AND LAMP POWER LO	20	355
K38-3	K41-3	A 836R	MG ERROR SIGNAL HI	24	582
K38-4	J5-R	A 90R	Z GYRO ERROR SIG (HI)	24	155
K38-4	J22-JJ	A 328R	Z GYRO ERROR SIGNAL HI	24	155
K38-5			SPARE N.C. CONTACT		155
K38-6	K41-6	A 836L	Z GYRO ERROR SIGNAL LO	24	158
K38-6	K38-8	AA 12	Z GYRO ERROR SIGNAL LO	24	158
K38-7	J5-S	A 90L	IMU GIMBAL AND GYRO ERROR SIG LO	24	158
K38-7	J22-KK	A 328L	Z GYRO ERROR SIGNAL LO	24	158
K38-8	K38-6	AA 12	Z GYRO ERROR SIGNAL LO	24	158
K38-9	K55-3	A 838R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K38-10	J5-C	A 85R	X GYRO ERROR SIG HI	24	146
K38-10	J22-EE	A 326R	X GYRO ERROR SIGNAL HI	24	146
K38-11			SPARE N.C. CONTACT		146
K38-12	K55-6	A 838L	OUTER GIMBAL ERROR SIGNAL LO	24	148
K38-12	K38-14	AA 13	OUTER GIMBAL ERROR SIGNAL LO	24	148
K38-13	J5-D	A 85L	IMU GIMBAL AND GYRO ERROR SIG LO	24	148
K38-13	J22-FF	A 326L	X GYRO ERROR SIGNAL LO	24	148
K38-14	K38-12	AA 13	OUTER GIMBAL ERROR SIGNAL LO	24	148
K38-15			SPARE N.O. CONTACT		
K38-16			SPARE WIPER CONTACT		
K38-17			SPARE N.C. CONTACT		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) K38	RELAY (1015837-001)				
K38-18			SPARE N.O. CONTACT		
K38-19			SPARE WIPER CONTACT		
K38-20			SPARE N.C. CONTACT		
K40	RELAY (1015837-001)				
K40-1	J9-K•	A 204	X-GYRO ERROR TO MG S A	20	556
K40-2	TB7-19C	A 840	27 VDC RELAY AND LAMP POWER LO	20	355
K40-3	K55-3	A 841R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K40-4	K41-5	A 842R	X IRIG PA HI	24	160
K40-5	K54-9	A 843R	MG ERROR SIGNAL HI	24	160
K40-6	K55-6	A 841L	OUTER GIMBAL ERROR SIGNAL HI	24	148
K40-7	K41-8	A 842L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K40-8	K54-12	A 843L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K40-9			SPARE N.O. CONTACT		
K40-10			SPARE WIPER CONTACT		
K40-11			SPARE N.C. CONTACT		
K40-12			SPARE N.O. CONTACT		
K40-13			SPARE WIPER CONTACT		
K40-14			SPARE N.C. CONTACT		
K40-15			SPARE N.O. CONTACT		
K40-16			SPARE WIPER CONTACT		
K40-17			SPARE N.C. CONTACT		
K40-18			SPARE N.O. CONTACT		
K40-19			SPARE WIPER CONTACT		
K40-20			SPARE N.C. CONTACT		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
K41	RELAY (1015837-001)				
K41-1	J9-M•	A 205	Z-GYRO ERROR TO MG S A	20	558
K41-2	TB7-19B	A 844	27 VDC RELAY AND LAMP POWER LO	20	355
K41-3	K38-3	A 836R	MG ERROR SIGNAL HI	24	582
K41-4	K56-10	A 845R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
K41-5	K40-4	A 842R	X IRIG PA HI	24	160
K41-6	K38-6	A 836L	Z GYRO ERROR SIGNAL LO	24	158
K41-7	K56-7	A 845L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K41-8	K40-7	A 842L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K41-9			SPARE N.O. CONTACT		
K41-10			SPARE WIPER CONTACT		
K41-11			SPARE N.C. CONTACT		
K41-12			SPARE N.O. CONTACT		
K41-13			SPARE WIPER CONTACT		
K41-14			SPARE N.C. CONTACT		
K41-15			SPARE N.O. CONTACT		
K41-16			SPARE WIPER CONTACT		
K41-17			SPARE N.C. CONTACT		
K41-18			SPARE N.O. CONTACT		
K41-19			SPARE WIPER CONTACT		
K41-20			SPARE N.C. CONTACT		
K42	RELAY (1015837-001)				
K42-1	J9-Q•	A 208	IG CDU LOOP INHIBIT	20	561
K42-2	K43-2	A 847	27 VDC RELAY AND LAMP POWER LO	20	355
K42-3	K42-6	AA 15	IG CDU MDA SIGNAL	24	585
K42-4	J26-T•	A 411Y	IG CDU MDA SLEW SIGNAL	24	295
K42-5	J38-FF	A 601Y	IG CDU MDA SLEW	24	295
K42-6	K42-3	AA 15	IG CDU MDA SIGNAL	24	585
K42-6	K42-9	AA 16	IG CDU MDA SIGNAL	24	585

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) K42	RELAY (1015837-001)				
K42-7	J26-S•	A 411L	IG CDU MDA INPUT RETURN	24	32
K42-8	J10-D	A 232L	IG CDU MDA INPUT RETURN	22	32
K42-8	J38-EE	A 601L	IG CDU MDA LO	24	32
K42-9	K42-6	AA 16	IG CDU MDA SIGNAL	24	585
K42-10	J26-R•	A 411R	IG CDU MDA TACH SIGNAL	24	30
K42-11	J10-C	A 232R	IG CDU MDA TACH SIGNAL	22	30
K42-11	J38-GG	A 601R	IG CDU MDA TACH OUTPUT HI	24	30
K42-12	K42-15	AA 17	IG CDU 1/2 X ERROR SIGNAL LO	24	584
K42-13	J27-NN	A 449L	IG CDU 1/2X ERROR SIGNAL LO	24	61
K42-14	J10-Y	A 238L	IG CDU ERROR SIGNAL RETURN S1	24	61
K42-14	J38-F•	A 590L	IG 1/2X ERROR LO	24	61
K42-15	K42-12	AA 17	IG CDU 1/2 X ERROR SIGNAL HI	24	584
K42-16	J27-MM	A 449R	IG CDU 1/2X ERROR SIGNAL HI	24	60
K42-17	J10-X	A 238R	IG CDU 1/2 X ERROR SIGNAL S3 HI	24	60
K42-17	J38-E•	A 590R	IG 1/2X ERROR HI	24	60
K42-18	K43-1	A 846	K43, K59, K60 COILS HI (K370 MECH)	20	404
K42-19	TB7-8E	A1086	27 VDC RELAY AND LAMP POWER HI	20	525
K42-19	K44-19	A1087	27 VDC RELAY AND LAMP POWER HI	20	525
K42-20			SPARE N.C. CONTACT		
K43	RELAY (1015837-001)				
K43-1	K42-18	A 846	K43, K59, K60 COILS HI (K370 MECH)	20	404
K43-1	K59-1	A 848	K43, K59, K60 COILS, TEST (K370 MECH)	20	404
K43-2	K42-2	A 847	27 VDC RELAY AND LAMP POWER LO	20	355
K43-2	K59-2	A 849	27 VDC RELAY AND LAMP POWER LO	20	355
K43-3			SPARE N.O. CONTACT		
K43-4	J22-M•	A 317L	IG CDU MDA OUTPUT LO	24	162
K43-5	J38-HH	A 602L	IG CDU MDA OUTPUT LO	24	162
K43-6			SPARE N.O. CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K43	RELAY (1015837-001)				
K43-7	J22-K•	A 317Y	0 VDC POWER GND (IMU) C.T.	24	157
K43-7	J38-KK	A 602Y	IG CDU MOTOR C.T. (0 VDC)	24	157
K43-8			SPARE N.C. CONTACT		157
K43-9			SPARE N.O. CONTACT		
K43-10	J22-J•	A 317R	IG CDU MDA OUTPUT HI	24	154
K43-11	J38-JJ	A 602R	IG CDU MDA OUTPUT HI	24	154
K43-12	K43-15	AA 18	IG CDU 1 X ERROR SIGNAL LO	24	586
K43-13	J26-Q•	A 410L	IG CDU 1X ERROR SIGNAL LO	24	291
K43-14	TB17-2D	A 850L	IG CDU 1/2 X ERROR SIGNAL LO	24	291
K43-15	K43-12	AA 18	IG CDU 1 X ERROR SIGNAL HI	24	586
K43-16	J26-P•	A 410R	IG CDU 1X ERROR SIGNAL HI	24	290
K43-17	TB17-1D	A 850R	IG CDU 1/2 X ERROR SIGNAL HI	24	290
K43-18			SPARE N.O. CONTACT		
K43-19			SPARE WIPER CONTACT		
K43-20			SPARE N.C. CONTACT		
	K44	RELAY (1015837-001)			
K44-1	J9-S•	A 210	ENABLE IG IMU RSVR SIG TO GPC	20	563
K44-2	K45-2	A 852	27 VDC RELAY AND LAMP POWER LO	20	355
K44-2	TB7-18E	A 853	27 VDC RELAY AND LAMP POWER LO	20	355
K44-3	J9-R•	A 209	IG POS SEL IND	20	562
K44-4	K45-15	A 854	K44, K45 INDICATIONS (K305A MECH)	20	588
K44-5			SPARE N.C. CONTACT		588
K44-6	J3-G•	A 48R	COS AIG 1X TO POS (HI)	24	335
K44-7	J4-V•	A 76R	COS AIG 1X S3 (HI)	24	139
K44-7	J22-B•	A 313R	IG 1X RSVR COS HI (IMU)	24	139
K44-7	K59-19	A 855R	IG 1/2 X RSVR COS HI (IMU)	24	139
K44-8	TB11-15D	A 856R	IG 1 X COS HI (BAI)	24	139
K44-9	J3-H•	A 48L	COS AIG 1X TO POS (LO)	24	336

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K44	RELAY (1015837-001)				
K44-10	J4-W•	A 76L	COS AIG 1X RET S1	24	141
K44-10	J22-C•	A 313L	IG 1X RSVR COS LO (IMU)	24	141
K44-10	K59-16	A 855L	IG 1/2 X RSVR COS LO (IMU)	24	141
K44-11	TB11-16D	A 856L	IG 1 X COS LO (BAI)	24	141
K44-12	J3-E•	A 47R	SIN AIG 1X TO POS (HI)	24	333
K44-13	J4-T•	A 75R	SIN AIG 1X S4 (HI)	24	143
K44-13	J22-D•	A 314R	IG 1X RSVR SIN HI (IMU)	24	143
K44-13	K59-13	A 857R	IG 1/2 X RSVR SIN HI (IMU)	24	143
K44-14	TB11-17D	A 858R	IG 1 X BAI SIN HI (IMU)	24	143
K44-15	J3-F•	A 47L	SIN AIG 1X TO POS (LO)	24	334
K44-16	J4-U•	A 75L	SIN AIG 1X RET S2	24	145
K44-16	J22-E•	A 314L	IG 1X RSVR SIN LO (IMU)	24	145
K44-16	K59-10	A 857L	IG 1/2 X RSVR SIN LO (IMU)	24	145
K44-17	TB11-18D	A 858L	IG 1 X BAI SIN LO (IMU)	24	145
K44-18	K45-1	A 851	27 VDC RELAY AND LAMP POWER HI	20	587
K44-19	K42-19	A1087	27 VDC RELAY AND LAMP POWER HI	20	525
K44-19	K46-19	A1088	27 VDC RELAY AND LAMP POWER HI	20	525
K44-20			SPARE N.C. CONTACT		
	K45	RELAY (1015837-001)			
K45-1	K44-18	A 851	27 VDC RELAY AND LAMP POWER HI	20	587
K45-2	K44-2	A 852	27 VDC RELAY AND LAMP POWER LO	20	355
K45-2	K45-16	AA 19	27 VDC RELAY AND LAMP POWER LO	24	355
K45-3	J3-C•	A 46R	COS AIG 16X TO POS (HI)	24	331
K45-4	J10-CC	A 244R	COS AIG 16X S3 HI	24	31
K45-4	K59-7	A 859R	AIG 16 X COS CDU HI	24	31
K45-5	K59-8	A 860R	IG 16 X COS HI	24	31
K45-6	J3-D•	A 46L	COS AIG 16X TO POS (LO)	24	332
K45-7	J10-DD	A 244L	COS AIG 16X TO CDU	24	33

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K45	RELAY (1015837-001)				
K45-7	K59-4	A 859L	AIG 16 X COS CDU LO	24	33
K45-8	K59-5	A 860L	IG 16 X COS LO	24	33
K45-9	J3-B•	A 45R	SIN AIG 16X TO POS (LO)	24	329
K45-10	J10-S•	A 241L	SIN AIG 16X S4	24	53
K45-10	K60-13	A 861R	AIG 16 X SIN CDU LO	24	53
K45-11	K60-14	A 862R	IG 16 X SIN LO	24	53
K45-12	J3-A•	A 45L	SIN AIG 16X TO POS (HI)	24	327
K45-13	J10-R•	A 241R	SIN AIG 16X TO CDU	24	52
K45-13	K60-10	A 861L	AIG 16 X SIN CDU HI	24	52
K45-14	K60-11	A 862L	IG 16 X SIN HI	24	52
K45-15	K44-4	A 854	K44, K45 INDICATIONS (K305A MECH)	20	588
K45-16	K45-2	AA 19	27 VDC RELAY AND LAMP POWER LO	24	355
K45-17			SPARE N.C. CONTACT		
K45-18			SPARE N.O. CONTACT		
K45-19			SPARE WIPER CONTACT		
K45-20			SPARE N.C. CONTACT		
	K46	RELAY (1015837-001)			
K46-1	J9-U•	A 212	MG CDU LOOP INHIBIT	20	565
K46-2	K47-2	A 864	27 VDC RELAY AND LAMP POWER LO	20	355
K46-3	K46-6	AA 20	MG CDU MDA SLEW SIGNAL	24	590
K46-4	J26-DD	A 415Y	MG CDU MDA SLEW SIGNAL	24	274
K46-5	J33-FF	A 516Y	MG CDU MDA SLEW	24	274
K46-6	K46-3	AA 20	MG CDU MDA INPUT RETURN	24	590
K46-6	K46-9	AA 21	MG CDU MDA INPUT RETURN	24	590
K46-7	J26-CC	A 415L	MG CDU MDA INPUT RETURN	24	36
K46-8	J10-F	A 233L	MG CDU MDA INPUT RET	22	36
K46-8	J33-EE	A 516L	MG CDU MDA LO	24	36
K46-9	K46-6	AA 21	MG CDU MDA TACH SIGNAL	24	590

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K46	RELAY (1015837-001)				
K46-10	J26-BB	A 415R	MG CDU MDA TACH SIGNAL	24	34
K46-11	J10-E	A 233R	MG CDU MDA TACH SIG	22	34
K46-11	J33-GG	A 516R	MG CDU MDA TACH	24	34
K46-12	K46-15	AA 22	MG CDU 1/2 X ERROR SIGNAL LO	24	589
K46-13	J26-Z•	A 414L	MG CDU 1/2X ERROR SIGNAL LO	24	59
K46-14	J10-W	A 237L	MG CDU ERROR SIG RET	24	59
K46-14	J33-F•	A 505L	MG 1/2X ERROR LO	24	59
K46-15	K46-12	AA 22	MG CDU 1/2 X ERROR SIGNAL HI	24	589
K46-16	J26-Y•	A 414R	MG CDU 1/2X ERROR SIGNAL HI	24	58
K46-17	J10-V	A 237R	MG CDU 1/2 X ERROR SIG (HI)	24	58
K46-17	J33-E•	A 505R	MG 1/2X ERROR HI	24	58
K46-18	K47-1	A 863	K47, K63, K64 COILS HI (K371 MECH)	20	413
K46-19	K44-19	A1088	27 VDC RELAY AND LAMP POWER HI	20	525
K46-19	K48-19	A1089	27 VDC RELAY AND LAMP POWER HI	20	525
K46-20			SPARE N.C. CONTACT		
	K47	RELAY (1015837-001)			
K47-1	K46-18	A 863	K47, K63, K64 COILS HI (K371 MECH)	20	413
K47-1	K63-1	A1053	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K47-2	K46-2	A 864	27 VDC RELAY AND LAMP POWER LO	20	355
K47-2	K64-2	A 865	27 VDC RELAY AND LAMP POWER LO	20	355
K47-3			SPARE N.O. CONTACT		
K47-4	J25-KK	A 394L	MG CDU MDA OUTPUT LO	22	261
K47-5	J33-HH	A 517L	MG CDU MDA OUTPUT LO	24	261
K47-6			SPARE N.O. CONTACT		
K47-7	J25-JJ	A 394Y	0 VDC IMU C.T.	22	259
K47-7	J33-KK	A 517Y	MG CDU MOTOR C.T. (0 VDC)	24	259
K47-8			SPARE N.C. CONTACT		259
K47-9			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K51	RELAY (1015837-001)				
K51-15	K51-12	AA 28	OG CDU 1/2 X ERROR SIGNAL COM	24	596
K51-16	J26-JJ	A 418R	OG CDU 1/2X ERROR SIGNAL HI	24	54
K51-17	J10-T	A 236R	OG CDU 1/2 X ERROR SIG (HI)	24	54
K51-17	J32-E*	A 484R	OG 1/2X ERROR HI	24	54
K51-18			SPARE N.O. CONTACT		
K51-19			SPARE WIPER CONTACT		
K51-20			SPARE N.C. CONTACT		
	K52 RELAY (1015837-001)				
K52-1	J9-Z*	A 217	ENABLE OG IMU RSVR SIG TO GPC	20	571
K52-2	K53-2	A 885	27 VOC RELAY AND LAMP POWER LO	20	355
K52-2	TB7-16D	A 886	27 VOC RELAY AND LAMP POWER LO	20	355
K52-3	J9-Y*	A 216	OG POS SELECTED IND	20	570
K52-4	K53-15	A 887	K52, K53 INDICATIONS (K317A MECH)	20	598
K52-5			SPARE N.C. CONTACT		598
K52-6	J3-AA	A 56R	COS AOG 1X TO POS (HI)	24	328
K52-7	K67-19	A 889	CDU COS AOG 1 X HI	24	180
K52-8	K67-20	A 890R	CDU COS AOG 1 X HI	24	180
K52-9	J3-BB	A 56L	COS AOG 1X TO POS (LO)	24	330
K52-10	TB11-14E	A 888	COU COS AOG 1 X LO	24	184
K52-11	K67-17	A 890L	COU COS AOG 1 X LO	24	184
K52-12	J3-Y*	A 55R	SIN AOG 1X TO POS (LO)	24	350
K52-13	K67-13	A 891	CDU SIN AOG 1 X LO	24	151
K52-14	K67-14	A 893R	COU SIN AOG 1 X LO	24	151
K52-15	J3-X*	A 55L	SIN AOG 1X TO POS (HI)	24	349
K52-16	TB11-8E	A 892	COU SIN AOG 1 X HI	24	156
K52-17	K67-11	A 893L	CDU SIN AOG 1 X HI	24	156
K52-18	K53-1	A 884	K53 COIL HI (K317 MECH)	20	597
K52-19	K50-19	A1091	27 VOC RELAY AND LAMP POWER HI	20	525

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K52	RELAY (1015837-001)				
K52-20			SPARE N.C. CONTACT		
	K53 RELAY (1015837-001)				
K53-1	K52-18	A 884	K53 COIL HI (K317 MECH)	20	597
K53-2	K52-2	A 885	27 VOC RELAY AND LAMP POWER LO	20	355
K53-2	K53-16	AA 29	27 VOC RELAY AND LAMP POWER LO	24	355
K53-3	J3-V*	A 54R	COS AOG 16X TO POS (HI)	24	347
K53-4	J22-AA	A 324R	CDU COS AOG 16X HI	24	55
K53-4	K67-7	A 894R	CDU COS AOG 16 X HI	24	55
K53-5	K67-8	A 895R	OG 16 X COS HI	24	55
K53-6	J3-W*	A 54L	COS AOG 16X TO POS (LO)	24	348
K53-7	J22-BB	A 324L	CDU COS AOG 16X LO	24	57
K53-7	K67-4	A 894L	CDU COS AOG 16 X LO	24	57
K53-8	K67-5	A 895L	OG 16 X COS LO	24	57
K53-9	J3-T*	A 53R	SIN AOG 16X TO POS (HI)	24	345
K53-10	J22-CC	A 325R	CDU SIN AOG 16X HI	24	45
K53-10	K68-13	A 896R	COU SIN AOG 16 X HI	24	45
K53-11	K68-14	A 897R	OG 16 X SIN HI	24	45
K53-12	J3-U*	A 53L	SIN AOG 16X TO POS (LO)	24	346
K53-13	J22-DD	A 325L	COU SIN AOG 16X LO	24	47
K53-13	K68-10	A 896L	CDU SIN AOG 16 X LO	24	47
K53-14	K68-11	A 897L	OG 16 X SIN LO	24	47
K53-15	K52-4	A 887	K52, K53 INDICATIONS (K317A MECH)	20	598
K53-16	K53-2	AA 29	27 VDC RELAY AND LAMP POWER LO	24	355
K53-17			SPARE N.C. CONTACT		
K53-18			SPARE N.O. CONTACT		
K53-19			SPARE WIPER CONTACT		
K53-20			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K54 RELAY (1015837-001)				
K54-1	J9-KK	A 227	IRIG TEST SELECTED	20	557
K54-2	K38-2	A 835	27 VOC RELAY AND LAMP POWER LO	20	355
K54-2	TB7-19E	A 898	27 VOC RELAY AND LAMP POWER LO	20	355
K54-3	K55-5	A 899R	OG ERROR SIGNAL HI	24	166
K54-4	J5-V	A 92R	IMU OG ERROR SIG (HI)	24	166
K54-4	J22-NN	A 330R	OG ERROR SIGNAL HI	24	166
K54-5	K55-4	A 900R	OG ERROR SIGNAL HI	24	166
K54-6	K55-8	A 899L	OG ERROR SIGNAL LO	24	169
K54-7	J5-W	A 92L	IMU GIMBAL AND GYRO ERROR SIG LO	24	169
K54-7	J22-PP	A 330L	OG ERROR SIGNAL LO	24	169
K54-8	K55-7	A 900L	OG ERROR SIGNAL LO	24	169
K54-9	K40-5	A 843R	MG ERROR SIGNAL HI	24	160
K54-10	J5-NN	A 111R	IMU MG ERROR SIG (HI)	24	160
K54-10	J22-LL	A 329R	MG ERROR SIGNAL HI	24	160
K54-11	J26-H*	A 407R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
K54-11	K56-4	A 901R	MG ERROR SIGNAL HI	24	160
K54-12	K40-8	A 843L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K54-13	J5-PP	A 111L	IMU GIMBAL AND GYRO ERROR SIG LO	24	163
K54-13	J22-MM	A 329L	MG ERROR SIGNAL LO	24	163
K54-14	J26-I*	A 407L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K54-14	K56-7	A 901L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K54-15	K38-1	A 834	K38 COIL HI (K346 MECH)	20	581
K54-16	TB7-8D	A1085	27 VDC RELAY AND LAMP POWER HI	20	525
K54-16	K57-16	A1092	27 VDC RELAY AND LAMP POWER HI	20	525
K54-17			SPARE N.C. CONTACT		
K54-18			SPARE N.O. CONTACT		
K54-19			SPARE WIPER CONTACT		
K54-20			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K55 RELAY (1015837-001)				
K55-1	J9-J*	A 203	X-GYRO ERROR TO OG S A	20	554
K55-2	TB7-19D	A 902	27 VDC RELAY AND LAMP POWER LO	20	355
K55-3	K38-9	A 838R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K55-3	K40-3	A 841R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K55-4	J26-J*	A 408R	OUTER GIMBAL ERROR SIGNAL HI	24	166
K55-4	K54-5	A 900R	OG ERROR SIGNAL HI	24	166
K55-5	K54-3	A 899R	OG ERROR SIGNAL HI	24	166
K55-6	K38-12	A 838L	OUTER GIMBAL ERROR SIGNAL HI	24	148
K55-6	K40-6	A 841L	OUTER GIMBAL ERROR SIGNAL HI	24	148
K55-7	J26-K*	A 408L	OUTER GIMBAL ERROR SIGNAL LO	24	169
K55-7	K54-8	A 900L	OG ERROR SIGNAL LO	24	169
K55-8	K54-6	A 899L	OG ERROR SIGNAL LO	24	169
K55-9			SPARE N.O. CONTACT		
K55-10			SPARE WIPER CONTACT		
K55-11			SPARE N.C. CONTACT		
K55-12			SPARE N.O. CONTACT		
K55-13			SPARE WIPER CONTACT		
K55-14			SPARE N.C. CONTACT		
K55-15			SPARE N.O. CONTACT		
K55-16			SPARE WIPER CONTACT		
K55-17			SPARE N.C. CONTACT		
K55-18			SPARE N.O. CONTACT		
K55-19			SPARE WIPER CONTACT		
K55-20			SPARE N.C. CONTACT		
	K56 RELAY (1015837-001)				
K56-1	J9-N*	A 206	INVERT Z-GYRO ERROR	20	559
K56-2	TB7-18B	A 903	27 VDC RELAY AND LAMP POWER LO	20	355
K56-3	E4	A 904W	ISOLATION TRANSFORMER OUTPUT TERM. 3	24	5

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K60	RELAY (1015837-001)				
K60-11	K45-14	A 862L	IG 16 X SIN HI	24	52
K60-11	K57-5	A 910L	IG 16 X SIN HI	24	52
K60-12			SPARE N.O. CONTACT		
K60-13	J22-H*	A 316R	CDU SIN AIG 16X LO	24	53
K60-13	K45-10	A 861R	AIG 16 X SIN CDU LO	24	53
K60-14	K45-11	A 862R	IG 16 X SIN LO	24	53
K60-14	K57-8	A 910R	IG 16 X SIN LO	24	53
K60-15			SPARE N.O. CONTACT		
K60-16			SPARE WIPER CONTACT		
K60-17			SPARE N.C. CONTACT		
K60-18			SPARE N.O. CONTACT		
K60-19			SPARE WIPER CONTACT		
K60-20			SPARE N.C. CONTACT		
	K61	RELAY (1015837-001)			
K61-1	J9-T*	A 211	MG CDU TEST COMMAND	20	564
K61-2	K62-2	A 923	27 VDC RELAY AND LAMP POWER LO	20	355
K61-2	TB7-17B	A 924	27 VDC RELAY AND LAMP POWER LO	20	355
K61-3	K57-3	A 909L	IG 16 X SIN HI	24	105
K61-3	K65-3	A 925L	IG 16 X SIN HI	24	105
K61-4	J33-U*	A 511L	MG 16X SINE HI	24	49
K61-5	K64-11	A 926L	MG 16 X SIN HI	24	49
K61-6	K57-6	A 909R	IG 16 X SIN LO	24	103
K61-6	K65-6	A 925R	IG 16 X SIN LO	24	103
K61-7	J33-T*	A 511R	MG 16X SINE LO	24	51
K61-8	K64-14	A 926R	MG 16 X SIN LO	24	51
K61-9	K57-9	A 911L	IG 16 X COS LO	24	110
K61-9	K65-9	A 927L	IG 16 X COS LO	24	110
K61-10	J33-S*	A 510L	MG 16X COSINE LO	24	29

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K61	RELAY (1015837-001)				
K61-11	K63-5	A 928L	MG 16 X COS LO	24	29
K61-12	K57-12	A 911R	IG 16 X COS HI	24	108
K61-12	K65-12	A 927R	IG 16 X COS HI	24	108
K61-13	J33-R*	A 510R	MG 16X COSINE HI	24	28
K61-14	K63-8	A 928R	MG 16 X COS HI	24	28
K61-15	K62-1	A 922	K62 COIL HI (K307 MECH)	20	601
K61-16	K57-16	A1093	27 VDC RELAY AND LAMP POWER HI	20	525
K61-16	K65-16	A1094	27 VDC RELAY AND LAMP POWER HI	20	525
K61-17			SPARE N.C. CONTACT		
K61-18			SPARE N.O. CONTACT		
K61-19			SPARE WIPER CONTACT		
K61-20			SPARE N.C. CONTACT		
	K62	RELAY (1015837-001)			
K62-1	K61-15	A 922	27 VDC RELAY AND LAMP POWER HI	20	601
K62-2	K61-2	A 923	27 VDC RELAY AND LAMP POWER LO	20	355
K62-3	K58-3	A 913L	IG 1 X SIN HI	24	111
K62-3	K66-3	A 929L	IG 1 X SIN HI	24	111
K62-4	J33-N*	A 508L	MG 1X SINE HI	24	170
K62-5	K63-14	A 930R	MG 1 X SIN BAI (IMU) HI	24	170
K62-6	K58-6	A 913R	IG 1 X SIN LO	24	112
K62-6	K66-6	A 929R	IG 1 X SIN LO	24	112
K62-7	J33-M*	A 508R	MG 1X SINE LO	24	172
K62-8	K63-11	A 930L	MG 1 X SIN BAI (IMU) LO	24	172
K62-9	K58-9	A 915L	IG 1 X COS LO	24	116
K62-9	K66-9	A 931L	IG 1 X COS LO	24	116
K62-10	J33-K*	A 507L	MG 1X COSINE LO	24	168
K62-11	K63-17	A 932L	MG 1 X COS BAI (IMU) LO	24	168
K62-12	K58-12	A 915R	MG 1 X COS HI	24	114

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K62	RELAY (1015837-001)				
K62-12	K66-12	A 931R	MG 1 X COS HI	24	114
K62-13	J33-J*	A 507R	MG 1X COSINE HI	24	165
K62-14	K63-20	A 932R	MG 1X COS BAI (IMU) HI	24	165
K62-15			SPARE N.O. CONTACT		
K62-16			SPARE WIPER CONTACT		
K62-17			SPARE N.C. CONTACT		
K62-18			SPARE N.O. CONTACT		
K62-19			SPARE WIPER CONTACT		
K62-20			SPARE N.C. CONTACT		
	K63	RELAY (1015837-001)			
K63-1	K64-1	A 933	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K63-1	K47-1	A1053	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K63-2	K64-2	A 934	27 VDC RELAY AND LAMP POWER LO	20	355
K63-2	TB7-17C	A 935	27 VDC RELAY AND LAMP POWER LO	20	355
K63-3			SPARE N.O. CONTACT		
K63-4	J10-BB	A 243L	COS AMG 16X TO CDU	24	29
K63-4	K49-7	A 875L	CDU COS AMG 16 X LO	24	29
K63-5	K49-8	A 876L	MG 16 X COS LO	24	29
K63-5	K61-11	A 928L	MG 16 X COS LO	24	29
K63-6			SPARE N.O. CONTACT		
K63-7	J10-AA	A 243R	COS AMG 16X S3 (HI)	24	28
K63-7	K49-4	A 875R	CDU COS AMG 16 X HI	24	28
K63-8	K49-5	A 876R	MG 16 X COS HI	24	28
K63-8	K61-14	A 928R	MG 16 X COS HI	24	28
K63-9			SPARE N.O. CONTACT		
K63-10	J22-R*	A 319L	MG 1X RSVR SIN LO (IMU)	24	172
K63-10	K48-16	A 873L	MG 1 X RSVR SIN LO (IMU)	24	172
K63-11	K62-8	A 930L	MG 1 X SIN BAI (IMU) LO	24	172

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K63	RELAY (1015837-001)				
K63-11	TB11-10D	A 936L	MG 1 X SIN BAI (IMU) LO	24	172
K63-12			SPARE N.O. CONTACT		
K63-13	J22-Q*	A 319R	MG 1X RSVR SIN HI (IMU)	24	170
K63-13	K48-13	A 873R	MG 1 X RSVR SIN HI (IMU)	24	170
K63-14	K62-5	A 930R	MG 1 X BAI (IMU) HI	24	170
K63-14	TB11-9D	A 936R	MG 1 X SIN BAI (IMU) HI	24	170
K63-15			SPARE N.O. CONTACT		
K63-16	J22-P*	A 318L	MG 1X RSVR COS LO (IMU)	24	168
K63-16	K48-10	A 871L	MG 1 X RSVR COS LO (IMU)	24	168
K63-17	K62-11	A 932L	MG 1 X COS BAI (IMU) LO	24	168
K63-17	TB11-12D	A 937L	MG 1 X COS BAI (IMU) LO	24	168
K63-18			SPARE N.O. CONTACT		
K63-19	J22-N*	A 318R	MG 1X RSVR COS HI (IMU)	24	165
K63-19	K48-7	A 871R	MG 1 X RSVR COS HI (IMU)	24	165
K63-20	K62-14	A 932R	MG 1 X COS BAI (IMU) HI	24	165
K63-20	TB11-11D	A 937R	MG 1 X COS BAI (IMU) HI	24	165
	K64	RELAY (1015837-001)			
K64-1	J34-W*	A 541	FOR GSE USE ONLY	20	413
K64-1	K63-1	A 933	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K64-2	K47-2	A 865	27 VDC RELAY AND LAMP POWER LO	20	355
K64-2	K63-2	A 934	27 VDC RELAY AND LAMP POWER LO	20	355
K64-3	K64-6	AA 31	MG CDU 16 X ERROR SIGNAL COM	24	602
K64-4	J26-V*	A 412L	MG CDU 16X ERROR SIGNAL LO	24	297
K64-5	J33-Q*	A 509L	MG 16X ERROR LO	24	297
K64-6	K64-3	AA 31	MG CDU 16 X ERROR SIGNAL COM	24	602
K64-7	J26-U*	A 412R	MG CDU 16X ERROR SIGNAL HI	24	296
K64-8	J33-P*	A 509R	MG 16X ERROR HI	24	296
K64-9			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K68	RELAY (1015837-001)				
K68-9			SPARE N.O. CONTACT		
K68-10	J10-N*	A 239L	SIN AOG 16X S% (LO)	24	47
K68-10	K53-13	A 896L	CDU SIN AOG 16 X LO	24	47
K68-11	K53-14	A 897L	OG 16 X SIN LO	24	47
K68-11	K65-8	A 941R	OG 16 X SIN LO	24	47
K68-12			SPARE N.O. CONTACT		
K68-13	J10-M*	A 239R	SIN AOG 16X TO CDU	24	45
K68-13	K53-10	A 896R	CDU SIN 16 X AOG HI	24	45
K68-14	K53-11	A 897R	OG 16 X SIN HI	24	45
K68-14	K65-5	A 941L	OG 16 X SIN HI	24	45
K68-15			SPARE N.O. CONTACT		
K68-16			SPARE WIPER CONTACT		604
K68-17			SPARE N.C. CONTACT		604
K68-18			SPARE N.O. CONTACT		
K68-19			SPARE WIPER CONTACT		605
K68-20			SPARE N.C. CONTACT		605
P1	27 PIN CONNECTOR (1016059-100) BLACK KEYED NORMAL				
P1-A	K7-7	A 950	PROCEED VOLTAGE	20	555
P1-A	P1-D	AA 33	PROCEED VOLTAGE	24	555
P1-B	TB7-16B	A 951	27 VDC RELAY AND LAMP POWER LO	20	355
P1-C	K25-8	A 952	K10 STEP SWITCH INTERRUPTER CONTACT	24	577
P1-D	TB1-22	A 953	PROCEED VOLTAGE TO A1R1	24	555
P1-D	P1-A	AA 33	PROCEED VOLTAGE	24	555
P1-E			SPARE CONTACT		
P1-F			SPARE CONTACT		
P1-G			SPARE CONTACT		
P1-H			SPARE CONTACT		
P1-J			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P1	27 PIN CONNECTOR (1016059-100) BLACK KEYED NORMAL				
P1-K			SPARE CONTACT		
P1-L			SPARE CONTACT		
P1-M			SPARE CONTACT		
P1-N			SPARE CONTACT		
P1-P			SPARE CONTACT		
P1-R			SPARE CONTACT		
P1-S			SPARE CONTACT		
P1-T			SPARE CONTACT		
P1-U	K25-4	A 954	CONT TEST ENABLE (28 VDC)	24	550
P1-U	P4-F	A 955	CONT TEST ENABLE (28 VDC)	24	550
P1-V	K25-1	A 956	K10 STEP SWITCH OFF-NORM CONT, HOME POS	24	575
P1-W	K25-7	A 957	OFF-NORM CONT (NOT HOME POS) TO A1C1	24	576
P1-W	TB1-24	A 959	K10 STEP SWITCH OFF-NORM CONT (NOT HOME POS)	24	576
P1-X	TB7-12B	A 958	27 VDC RELAY AND LAMP PWR HI	24	525
P1-Y			SPARE CONTACT		
P1-Z			SPARE CONTACT		
P1-A*			SPARE CONTACT		
P1-B*			SPARE CONTACT		
P1-C*			SPARE CONTACT		
P1-D*			SPARE CONTACT		
P2	27 PIN CONNECTOR (1016059-101) BLACK KEYED W				
P2-A	J44-DD	A 704	ZERO OPTICS TO COMPUTER	20	506
P2-B	J44-U	A 687	SXT POWER TO COMPUTER	24	515
P2-C	J44-S	A 686	ATTITUDE DISABLE SIGNAL (28 VDC TO NAA)	24	513
P2-D	J44-B*	A 692	26 VOLTS 400 CPS SLEW	24	503
P2-D	P2-G	AA 34	26 VOLTS 400 CPS SLEW	24	503
P2-E	J43-E*	A 672	0.5 V 400 CPS ZERO PHASE	24	494
P2-F	J44-E*	A 695	28 VDC HI	20	507

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P2	27 PIN CONNECTOR (1016059-101) BLACK KEYED W				
P2-F	P2-J	AA 36	28 VDC HI	24	507
P2-G	P2-D	AA 34	26 VOLTS 400 CPS SLEW	24	503
P2-G	P2-R	AA 35	26 VOLTS 400 CPS SLEW	24	503
P2-H	J43-F*	A 673	0.5 V 400 CPS P1 PHASE	24	496
P2-J	P2-F	AA 36	28 VDC HI	24	507
P2-J	P2-K	AA 37	28 VDC HI	24	507
P2-K	P2-J	AA 37	28 VDC HI	24	507
P2-K	P2-T	AA 38	28 VDC HI	24	507
P2-L	J44-M*	A 696	6 VOLTS 400 CPS (TO M AND DV)	20	508
P2-M	J44-S*	A 700	M AND DV INTENSITY LO	24	514
P2-N	J44-R*	A 699	M AND DV INTENSITY HI	24	512
P2-P	J44-Z	A 690	STEP UP C	24	517
P2-P	P2-U	AA 40	STEP UP C	24	517
P2-R	P2-G	AA 35	28 VOLTS 400 CPS SLEW	24	503
P2-R	P2-Y	AA 39	28 VOLTS 400 CPS SLEW	24	503
P2-S	J44-D*	A 694	26 VOLTS 400 CPS MOTOR EXCITATION	20	505
P2-S	P2-V	AA 41	26 VOLTS 400 CPS MOTOR EXCITATION	24	505
P2-T	P2-K	AA 38	28 VDC HI	24	507
P2-U	P2-P	AA 40	STEP UP C	24	517
P2-V	P2-S	AA 41	26 VOLTS 400 CPS MOTOR EXCITATION	24	505
P2-W	P2-X	AA 42	STEP DOWN C	24	504
P2-X	J44-C*	A 693	STEP DOWN C	24	504
P2-X	P2-W	AA 42	STEP DOWN C	24	504
P2-Y	P2-R	AA 39	28 VOLTS 400 CPS SLEW	24	503
P2-Z	J44-P*	A 698	MARK BUTTON N.C. TO COMPUTER	24	510
P2-A*	J44-N*	A 697	MARK BUTTON N.O. TO COMPUTER	24	509
P2-B*	J43-N	A1153	SPACECRAFT LAMP TEST	20	498
P2-C*	J47-C	A1168	TRACKER ON IND TO AGC	20	521
P2-D*	K7-1	A 960	K7 CONTROL 28 VDC HI	24	607

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
P3	27 PIN CONNECTOR (1016059-102) BLACK KEYED X				
P3-A	J47-E	A1169	OPTICS MODE SWITCH IND TO AGC	20	522
P3-B			SPARE CONTACT		
P3-C			SPARE CONTACT		
P3-D			SPARE CONTACT		
P3-E			SPARE CONTACT		
P3-F			SPARE CONTACT		
P3-G			SPARE CONTACT		
P3-H			SPARE CONTACT		
P3-J			SPARE CONTACT		
P3-K			SPARE CONTACT		
P3-L			SPARE CONTACT		
P3-M			SPARE CONTACT		
P3-N			SPARE CONTACT		
P3-P			SPARE CONTACT		
P3-R			SPARE CONTACT		
P3-S			SPARE CONTACT		
P3-T			SPARE CONTACT		
P3-U			SPARE CONTACT		
P3-V			SPARE CONTACT		
P3-W			SPARE CONTACT		
P3-X			SPARE CONTACT		
P3-Y			SPARE CONTACT		
P3-Z			SPARE CONTACT		
P3-A*			SPARE CONTACT		
P3-B*			SPARE CONTACT		
P3-C*			SPARE CONTACT		
P3-D*			SPARE CONTACT		
P4	27 PIN CONNECTOR (1016059-103) BLUE KEYED NORMAL				

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) P4	27 PIN CONNECTOR (1016059-103) BLUE KEYED NORMAL				
P4-A			SPARE CONTACT		
P4-B			SPARE CONTACT		
P4-C			SPARE CONTACT		
P4-D			SPARE CONTACT		
P4-E			SPARE CONTACT		
P4-F	P1-U	A 955	CONT TEST ENABLE (28 VDC)	24	550
P4-F	P4-J	AA 43	CONT TEST ENABLE (28 VDC)	24	550
P4-G			SPARE CONTACT		
P4-H			SPARE CONTACT		
P4-J	P4-F	AA 43	CONT TEST ENABLE (28 VDC)	24	550
P4-J	P4-K	AA 44	CONT TEST ENABLE (28 VDC)	24	550
P4-K	P4-J	AA 44	CONT TEST ENABLE (28 VDC)	24	550
P4-K	P4-T	AA 45	CONT TEST ENABLE (28 VDC)	24	550
P4-L			SPARE CONTACT		
P4-M			SPARE CONTACT		
P4-N			SPARE CONTACT		
P4-P			SPARE CONTACT		
P4-R			SPARE CONTACT		
P4-S			SPARE CONTACT		
P4-T	P4-K	AA 45	CONT TEST ENABLE (28 VDC)	24	550
P4-T	P4-U	AA 46	CONT TEST ENABLE (28 VDC)	24	550
P4-U	P4-T	AA 46	CONT TEST ENABLE (28 VDC)	24	550
P4-U	P4-X	AA 47	CONT TEST ENABLE (28 VDC)	24	550
P4-V			SPARE CONTACT		
P4-W			SPARE CONTACT		
P4-X	P6-D*	A 961	CONT TEST ENABLE (28 VDC)	24	550
P4-X	P4-U	AA 47	CONT TEST ENABLE (28 VDC)	24	550
P4-Y			SPARE CONTACT		
P4-Z			SPARE CONTACT		
P4-A*			SPARE CONTACT		
P4-B*			SPARE CONTACT		
P4-C*			SPARE CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) P4	27 PIN CONNECTOR (1016059-103) BLUE KEYED NORMAL				
P4-D*	K8-2	A 962	28 VDC HI, M AND DV	24	609
	P6	27 PIN CONNECTOR (1016059-105) BLUE KEYED X			
P6-A	J43-V*	A 676	ZERO OPTICS FROM COMPUTER	20	500
P6-A	P6-L	AA128	ZERO OPTICS FROM COMPUTER	24	500
P6-B	J43-W	A 665	SXT POWER SWITCH FROM COMPUTER	24	501
P6-C			SPARE CONTACT		
P6-D	J43-Z	A 667	26 V 400 CPS	20	502
P6-D	P6-G	AA 49	26 V 400 CPS	24	502
P6-E	J44-Y	A 689	M AND DV SLEW CONTROL	24	516
P6-E	P6-H	AA 48	M AND DV SLEW CONTROL	24	516
P6-F			SPARE CONTACT		
P6-G	P6-D	AA 49	26 V 400 CPS	24	502
P6-G	P6-R	AA 50	26 V 400 CPS	24	502
P6-H	P6-E	AA 48	M AND DV SLEW CONTROL	24	516
P6-J			SPARE CONTACT		
P6-K			SPARE CONTACT		
P6-L	P6-A	AA128	ZERO OPTICS FROM COMPUTER	24	500
P6-M	P6-N	AA 52	6 VOLT 400 CPS HI	24	608
P6-N	K8-13	A 963	6 VOLT 400 CPS HI	24	608
P6-N	P6-M	AA 52	6 VOLT 400 CPS HI	24	608
P6-P	J43-D*	A 671	STEP UP R	24	493
P6-R	P6-G	AA 50	26 V 400 CPS	24	502
P6-R	P6-S	AA 53	26 V 400 CPS	24	502
P6-S	P6-R	AA 53	26 V 400 CPS	24	502
P6-S	P6-V	AA 54	26 V 400 CPS	24	502
P6-T			SPARE CONTACT		
P6-U			SPARE CONTACT		
P6-V	P6-S	AA 54	26 V 400 CPS	24	502

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) P6	27 PIN CONNECTOR (1016059-105) BLUE KEYED X				
P6-V	P6-Y	AA 55	26 V 400 CPS	24	502
P6-W	J43-B*	A 669	STEP DOWN R	24	492
P6-X			SPARE CONTACT		
P6-Y	P6-V	AA 55	26 V 400 CPS	24	502
P6-Z	J43-I*	A 674	MARK BUTTON TO COMPUTER (WIPER)	20	497
P6-Z	P6-A*	AA122	MARK BUTTON TO COMPUTER (WIPER)	24	497
P6-A*	P6-Z	AA122	MARK BUTTON TO COMPUTER (WIPER)	24	497
P6-B*	J44-R	A115A	SPACECRAFT ZERO VDC	20	511
P6-C*			SPARE CONTACT		
P6-D*	P4-X	A 961	CONT TEST ENABLE (28 VDC)	24	550
P6-D*	P8-D*	A 964	CONT TEST ENABLE (28 VDC)	24	550
	P8	27 PIN CONNECTOR (1016059-110) RED KEYED W			
P8-A			SPARE CONTACT		
P8-B			SPARE CONTACT		
P8-C			SPARE CONTACT		
P8-D			SPARE CONTACT		
P8-E			SPARE CONTACT		
P8-F			SPARE CONTACT		
P8-G			SPARE CONTACT		
P8-H			SPARE CONTACT		
P8-J			SPARE CONTACT		
P8-K	J8-M*	A 170	STEPPER TENS ONE	24	545
P8-K	P8-L	AA 64	STEPPER TENS ONE	24	545
P8-L	P8-M	AA 56	STEPPER TENS ONE	24	545
P8-L	P8-K	AA 64	STEPPER TENS ONE	24	545
P8-M	P8-L	AA 56	STEPPER TENS ONE	24	545
P8-M	P8-N	AA 57	STEPPER TENS ONE	24	545
P8-N	P8-M	AA 57	STEPPER TENS ONE	24	545

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) P8	27 PIN CONNECTOR (1016059-110) RED KEYED W				
P8-N	P8-P	AA 58	STEPPER TENS ONE	24	545
P8-P	P8-N	AA 58	STEPPER TENS ONE	24	545
P8-P	P8-R	AA 59	STEPPER TENS ONE	24	545
P8-R	P8-P	AA 59	STEPPER TENS ONE	24	545
P8-R	P8-S	AA 60	STEPPER TENS ONE	24	545
P8-S	P8-R	AA 60	STEPPER TENS ONE	24	545
P8-S	P8-T	AA 61	STEPPER TENS ONE	24	545
P8-T	P8-S	AA 61	STEPPER TENS ONE	24	545
P8-T	P8-U	AA 62	STEPPER TENS ONE	24	545
P8-U	P8-T	AA 62	STEPPER TENS ONE	24	545
P8-U	P8-V	AA 63	STEPPER TENS ONE	24	545
P8-V	P8-U	AA 63	STEPPER TENS ONE	24	545
P8-W	J8-N*	A 171	STEPPER TENS TWO	24	546
P8-W	P8-X	AA 72	STEPPER TENS TWO	24	546
P8-X	P8-Y	AA 65	STEPPER TENS TWO	24	546
P8-X	P8-W	AA 72	STEPPER TENS TWO	24	546
P8-Y	P8-X	AA 65	STEPPER TENS TWO	24	546
P8-Y	P8-Z	AA 66	STEPPER TENS TWO	24	546
P8-Z	P8-Y	AA 66	STEPPER TENS TWO	24	546
P8-Z	P8-A*	AA 67	STEPPER TENS TWO	24	546
P8-A*	P8-Z	AA 67	STEPPER TENS TWO	24	546
P8-A*	P8-B*	AA 68	STEPPER TENS TWO	24	546
P8-B*	P8-A*	AA 68	STEPPER TENS TWO	24	546
P8-B*	P8-C*	AA 69	STEPPER TENS TWO	24	546
P8-C*	P9-A	A 965	STEPPER TENS TWO	24	546
P8-C*	P8-B*	AA 69	STEPPER TENS TWO	24	546
P8-D*	P6-D*	A 964	CONT TEST ENABLE (28 VDC)	24	550
P8-D*	P10-D*	A 966	CONT TEST ENABLE (28 VDC)	24	550

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	P9	27 PIN CONNECTOR (1016059-106) GREEN KEYED NORMAL			
P9-A	P8-C*	A 965	STEPPER TENS TWO	24	546
P9-A	P9-B	AA 70	STEPPER TENS TWO	24	546
P9-B	P9-A	AA 70	STEPPER TENS TWO	24	546
P9-B	P9-C	AA 71	STEPPER TENS TWO	24	546
P9-C	P9-B	AA 71	STEPPER TENS TWO	24	546
P9-D	J8-P*	A 172	STEPPER TENS THREE	24	547
P9-D	P9-E	AA 81	STEPPER TENS THREE	24	547
P9-E	P9-F	AA 73	STEPPER TENS THREE	24	547
P9-E	P9-D	AA 81	STEPPER TENS THREE	24	547
P9-F	P9-E	AA 73	STEPPER TENS THREE	24	547
P9-F	P9-G	AA 74	STEPPER TENS THREE	24	547
P9-G	P9-F	AA 74	STEPPER TENS THREE	24	547
P9-G	P9-H	AA 75	STEPPER TENS THREE	24	547
P9-H	P9-G	AA 75	STEPPER TENS THREE	24	547
P9-H	P9-J	AA 76	STEPPER TENS THREE	24	547
P9-J	P9-H	AA 76	STEPPER TENS THREE	24	547
P9-J	P9-K	AA 77	STEPPER TENS THREE	24	547
P9-K	P9-J	AA 77	STEPPER TENS THREE	24	547
P9-K	P9-L	AA 78	STEPPER TENS THREE	24	547
P9-L	P9-K	AA 78	STEPPER TENS THREE	24	547
P9-L	P9-M	AA 79	STEPPER TENS THREE	24	547
P9-M	P9-L	AA 79	STEPPER TENS THREE	24	547
P9-M	P9-N	AA 80	STEPPER TENS THREE	24	547
P9-N	P9-M	AA 80	STEPPER TENS THREE	24	547
P9-P	J8-Q*	A 173	STEPPER TENS FOUR	24	548
P9-P	P9-R	AA 90	STEPPER TENS FOUR	24	548
P9-R	P9-S	AA 82	STEPPER TENS FOUR	24	548
P9-R	P9-P	AA 90	STEPPER TENS FOUR	24	548
P9-S	P9-R	AA 82	STEPPER TENS FOUR	24	548
P9-S	P9-T	AA 83	STEPPER TENS FOUR	24	548
P9-T	P9-S	AA 83	STEPPER TENS FOUR	24	548
P9-T	P9-U	AA 84	STEPPER TENS FOUR	24	548

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P9		27 PIN CONNECTOR (1016059-106) GREEN KEYED NORMAL			
P9-U	P9-T	AA 84	STEPPER TENS FOUR	24	548
P9-U	P9-V	AA 85	STEPPER TENS FOUR	24	548
P9-V	P9-U	AA 85	STEPPER TENS FOUR	24	548
P9-V	P9-W	AA 86	STEPPER TENS FOUR	24	548
P9-W	P9-V	AA 86	STEPPER TENS FOUR	24	548
P9-W	P9-X	AA 87	STEPPER TENS FOUR	24	548
P9-X	P9-W	AA 87	STEPPER TENS FOUR	24	548
P9-X	P9-Y	AA 88	STEPPER TENS FOUR	24	548
P9-Y	P9-X	AA 88	STEPPER TENS FOUR	24	548
P9-Y	P9-Z	AA 89	STEPPER TENS FOUR	24	548
P9-Z	P9-Y	AA 89	STEPPER TENS FOUR	24	548
P9-A*	J8-R*	A 174	STEPPER TENS FIVE	24	549
P9-A*	P9-B*	AA 91	STEPPER TENS FIVE	24	549
P9-B*	P9-A*	AA 91	STEPPER TENS FIVE	24	549
P9-C*			SPARE CONTACT		
P9-D*			SPARE CONTACT		
	P10	27 PIN CONNECTOR (1016059-107) GREEN KEYED W			
P10-A	J8-B*	A 161	STEPPER UNITS ONE	24	536
P10-A	P10-L	AA 92	STEPPER UNITS ONE	24	536
P10-B	J8-C*	A 162	STEPPER UNITS TWO	24	537
P10-B	P10-M	AA 93	STEPPER UNITS TWO	24	537
P10-C	J8-D*	A 163	STEPPER UNITS THREE	24	538
P10-C	P10-N	AA 94	STEPPER UNITS THREE	24	538
P10-D	J8-E*	A 164	STEPPER UNITS FOUR	24	539
P10-D	P10-P	AA 95	STEPPER UNITS FOUR	24	539
P10-E	J8-F*	A 165	STEPPER UNITS FIVE	24	540
P10-E	P10-R	AA 96	STEPPER UNITS FIVE	24	540
P10-F	J8-G*	A 166	STEPPER UNITS SIX	24	541

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P10		27 PIN CONNECTOR (1016059-107) GREEN KEYED W			
P10-F	P10-S	AA 97	STEPPER UNITS SIX	24	541
P10-G	J8-H*	A 167	STEPPER UNITS SEVEN	24	542
P10-G	P10-T	AA 98	STEPPER UNITS SEVEN	24	542
P10-H	J8-J*	A 168	STEPPER UNITS EIGHT	24	543
P10-H	P10-U	AA 99	STEPPER UNITS EIGHT	24	543
P10-J	J8-K*	A 169	STEPPER UNITS NINE	24	544
P10-J	P10-V	AA100	STEPPER UNITS NINE	24	544
P10-K	P10-W	AA101	STEPPER UNITS ZERO	24	535
P10-K	P11-C*	AA106	STEPPER UNITS ZERO	24	535
P10-L	P10-A	AA 92	STEPPER UNITS ONE	24	536
P10-L	P10-X	AA102	STEPPER UNITS ONE	24	536
P10-M	P10-B	AA 93	STEPPER UNITS TWO	24	537
P10-M	P10-Y	AA103	STEPPER UNITS TWO	24	537
P10-N	P10-C	AA 94	STEPPER UNITS THREE	24	538
P10-N	P10-Z	AA104	STEPPER UNITS THREE	24	538
P10-P	P10-D	AA 95	STEPPER UNITS FOUR	24	539
P10-P	P10-A*	AA105	STEPPER UNITS FOUR	24	539
P10-R	P10-E	AA 96	STEPPER UNITS FIVE	24	540
P10-R	P10-B*	AA129	STEPPER UNITS FIVE	24	540
P10-S	P10-F	AA 97	STEPPER UNITS SIX	24	541
P10-S	P10-C*	AA130	STEPPER UNITS SIX	24	541
P10-T	P10-G	AA 98	STEPPER UNITS SEVEN	24	542
P10-T	P11-A	A1063	STEPPER UNITS SEVEN	24	542
P10-U	P10-H	AA 99	STEPPER UNITS EIGHT	24	543
P10-U	P11-B	A1064	STEPPER UNITS EIGHT	24	543
P10-V	P10-J	AA100	STEPPER UNITS NINE	24	544
P10-V	P11-C	A1065	STEPPER UNITS NINE	24	544
P10-W	P10-K	AA101	STEPPER UNITS ZERO	24	535
P10-W	P11-D	A1066	STEPPER UNITS ZERO	24	535
P10-X	P10-L	AA102	STEPPER UNITS ONE	24	536
P10-X	P11-E	A1067	STEPPER UNITS ONE	24	536
P10-Y	P10-M	AA103	STEPPER UNITS TWO	24	537

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P10		27 PIN CONNECTOR (1016059-107) GREEN KEYED W			
P10-Y	P11-F	A1068	STEPPER UNITS TWO	24	537
P10-Z	P10-N	AA104	STEPPER UNITS THREE	24	538
P10-Z	P11-G	A1069	STEPPER UNITS THREE	24	538
P10-A*	P10-P	AA105	STEPPER UNITS FOUR	24	539
P10-A*	P11-H	A1070	STEPPER UNITS FOUR	24	539
P10-B*	P10-R	AA129	STEPPER UNITS FIVE	24	540
P10-B*	P11-J	A1071	STEPPER UNITS FIVE	24	540
P10-C*	P10-S	AA130	STEPPER UNITS SIX	24	541
P10-C*	P11-K	A1072	STEPPER UNITS SIX	24	541
P10-D*	P8-D*	A 966	CONT TEST ENABLE (28 VDC)	24	550
P10-D*	K8-*	A 967	CONT TEST ENABLE (28 VDC)	24	550
	P11	27 PIN CONNECTOR (1016059-108) GREEN KEYED X			
P11-A	P11-L	AA131	STEPPER UNITS SEVEN	24	542
P11-A	P10-T	A1063	STEPPER UNITS SEVEN	24	542
P11-B	P11-M	AA132	STEPPER UNITS EIGHT	24	543
P11-B	P10-U	A1064	STEPPER UNITS EIGHT	24	543
P11-C	P11-N	AA133	STEPPER UNITS NINE	24	544
P11-C	P10-V	A1065	STEPPER UNITS NINE	24	544
P11-D	P11-P	AA134	STEPPER UNITS ZERO	24	535
P11-D	P10-W	A1066	STEPPER UNITS ZERO	24	535
P11-E	P11-R	AA135	STEPPER UNITS ONE	24	536
P11-E	P10-X	A1067	STEPPER UNITS ONE	24	536
P11-F	P11-S	AA136	STEPPER UNITS TWO	24	537
P11-F	P10-Y	A1068	STEPPER UNITS TWO	24	537
P11-G	P11-T	AA137	STEPPER UNITS THREE	24	538
P11-G	P10-Z	A1069	STEPPER UNITS THREE	24	538
P11-H	P11-U	AA138	STEPPER UNITS FOUR	24	539
P11-H	P10-A*	A1070	STEPPER UNITS FOUR	24	539

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A856	E73B	A 856A	SHIELD GROUND (K44 END)	22	3
SHLD A857	E73B	A 857A	SHIELD GROUND (K44 END)	22	3
SHLD A858	E73B	A 858A	SHIELD GROUND (K44 END)	22	3
SHLD A859	E73B	A 859A	SHIELD GROUND (K45 END)	22	3
SHLD A860	E73B	A 860A	SHIELD GROUND (K45 END)	22	3
SHLD A861	E73B	A 861A	SHIELD GROUND (K45 END)	22	3
SHLD A862	E73B	A 862A	SHIELD GROUND (K45 END)	22	3
SHLD A866	E75B	A 866A	SHIELD GROUND (K47 END)	22	3
SHLD A871	E75B	A 871A	SHIELD GROUND (K48 END)	22	3
SHLD A872	E75B	A 872A	SHIELD GROUND (K48 END)	22	3
SHLD A873	E75B	A 873A	SHIELD GROUND (K48 END)	22	3
SHLD A874	E75B	A 874A	SHIELD GROUND (K48 END)	22	3
SHLD A875	E75B	A 875A	SHIELD GROUND (K49 END)	22	3
SHLD A876	E75B	A 876A	SHIELD GROUND (K49 END)	22	3
SHLD A877	E75B	A 877A	SHIELD GROUND (K49 END)	22	3
SHLD A878	E75B	A 878A	SHIELD GROUND (K49 END)	22	3
SHLD A881	E75B	A 881A	SHIELD GROUND (K50 END)	22	3
SHLD A890	E76B	A 890A	SHIELD GROUND (K52 END)	22	3
SHLD A893	E76B	A 893A	SHIELD GROUND (K52 END)	22	3
SHLD A894	E76B	A 894A	SHIELD GROUND (K53 END)	22	3
SHLD A895	E76B	A 895A	SHIELD GROUND (K53 END)	22	3
SHLD A896	E76B	A 896A	SHIELD GROUND (K53 END)	22	3
SHLD A897	E76B	A 897A	SHIELD GROUND (K53 END)	22	3
SHLD A899	E71B	A 899A	SHIELD GROUND (K54 END)	22	3
SHLD A900	E71B	A 900A	SHIELD GROUND (K54 END)	22	3
SHLD A901	E71B	A 901A	SHIELD GROUND (K54 END)	22	3
SHLD A904	E71B	A 904A	SHIELD GROUND (K56 END)	22	3
SHLD A905	E71B	A 905A	SHIELD GROUND (K56 END)	22	3
SHLD A909	E72B	A 909A	SHIELD GROUND (K57 END)	22	3
SHLD A910	E72B	A 910A	SHIELD GROUND (K57 END)	22	3
SHLD A911	E72B	A 911A	SHIELD GROUND (K57 END)	22	3
SHLD A912	E72B	A 912A	SHIELD GROUND (K57 END)	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A913	E72B	A 913A	SHIELD GROUND (K58 END)	22	3
SHLD A914	E72B	A 914A	SHIELD GROUND (K58 END)	22	3
SHLD A915	E72B	A 915A	SHIELD GROUND (K58 END)	22	3
SHLD A916	E72B	A 916A	SHIELD GROUND (K58 END)	22	3
SHLD A919	E72B	A 919A	SHIELD GROUND (K59 END)	22	3
SHLD A920	E72B	A 920A	SHIELD GROUND (K59 END)	22	3
SHLD A925	E74B	A 925A	SHIELD GROUND (K61 END)	22	3
SHLD A926	E74B	A 926A	SHIELD GROUND (K61 END)	22	3
SHLD A927	E74B	A 927A	SHIELD GROUND (K61 END)	22	3
SHLD A928	E74B	A 928A	SHIELD GROUND (K61 END)	22	3
SHLD A929	E74B	A 929A	SHIELD GROUND (K62 END)	22	3
SHLD A930	E74B	A 930A	SHIELD GROUND (K62 END)	22	3
SHLD A931	E74B	A 931A	SHIELD GROUND (K62 END)	22	3
SHLD A932	E74B	A 932A	SHIELD GROUND (K62 END)	22	3
SHLD A936	E74B	A 936A	SHIELD GROUND (K63 END)	22	3
SHLD A937	E74B	A 937A	SHIELD GROUND (K63 END)	22	3
SHLD A941	E76B	A 941A	SHIELD GROUND (K65 END)	22	3
SHLD A942	E76B	A 942A	SHIELD GROUND (K65 END)	22	3
SHLD A943	E76B	A 943A	SHIELD GROUND (K66 END)	22	3
SHLD A944	E76B	A 944A	SHIELD GROUND (K66 END)	22	3
SHLD A1054	E65B	A1054A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A1055	E33B	A1055A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1056	E33B	A1056A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1057	E33B	A1057A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1107	E48B	A1107A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A1108	E48B	A1108A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A1110	E24B	A1110A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A1123	E33B	A1123A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1132	E32B	A1132A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1133	E65B	A1133A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A1134	E32B	A1134A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1138	E51B	A1138A	SHIELD GROUND (J31 CONNECTOR END)	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A1139	E57B	A1139A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A1145	E68B	A1145A	SHIELD GROUND (K19 END)	22	3
SHLD A1146	E68B	A1146A	SHIELD GROUND (K19 END)	22	3
SHLD A1147	E68B	A1147A	SHIELD GROUND (K19 END)	22	3
SHLD A1148	E68B	A1148A	SHIELD GROUND (K19 END)	22	3
SHLD A1149	E68B	A1149A	SHIELD GROUND (K29 END)	22	3
SHLD A1155	E88B	A1155A	SHIELD GROUND (TB17 END)	22	3
SHLD A1156	E33B	A1156A	SHIELD GROUND (J10 END)	22	3
SHLD A1157	E62B	A1157A	SHIELD GROUND (J34 END)	22	3
SHLD A1196	E48B	A1196A	SHIELD GROUND (J27 END)	22	3
T1 ISOLATION TRANSFORMER 1 TO 1 3200 CPS (1016165)					
T1-1	E2		ISOLATION TRANSFORMER INPUT, TERM. 1		2
T1-2	E3		ISOLATION TRANSFORMER INPUT, TERM. 2		4
T1-3	E4		ISOLATION TRANSFORMER OUTPUT, TERM. 3		5
T1-4	E5		ISOLATION TRANSFORMER OUTPUT, TERM. 4		2
TB1 TERMINAL BOARD (A1 COMPONENT BOARD ASSY 1900833-011)					
TB1-1	TB6-7B	A 969	27 VDC RLP GROUND (A1CR1 ANODE)	20	355
TB1-1	TB1-3	A1AA2	27 VDC RLP GROUND (A1CR1 ANODE)	20	355
TB1-2	J9-HH	A 225	CONT TEST SOURCE VOLTAGE (A1CR1 CATHODE)	24	550
TB1-2	K8-4	A 758	CONT TEST ENABLE (28 VDC)-(A1CR1 CATHODE)	20	550
TB1-3	TB1-1	A1AA2	27 VDC RLP GROUND (A1CR2 ANODE)	20	355
TB1-3	TB1-5	A1AA3	27 VDC RLP GROUND (A1CR2 ANODE)	20	355
TB1-4	K2-X01	A 732	AGE 28 VDC VARIABLE POWER HI (A1CR2 CATHODE)	20	529
TB1-5	TB1-3	A1AA3	27 VDC RLP GROUND (A1CR3 ANODE)	20	355

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB1 TERMINAL BOARD (A1 COMPONENT BOARD ASSY 1900833-011)					
TB1-5	TB1-7	A1AA4	27 VDC RLP GROUND (A1CR3 ANODE)	20	355
TB1-6	K3-5	A 736	ISS STANDBY ON CONTROL (A1CR3 CATHODE)	20	527
TB1-7	TB1-5	A1AA4	27 VDC RLP GROUND (A1CR4 ANODE)	20	355
TB1-7	TB1-9	A1AA5	27 VDC RLP GROUND (A1CR4 ANODE)	20	355
TB1-8	K4-5	A 741	OPTICS POWER ON CONTROL (A1CR4 CATHODE)	24	532
TB1-9	TB1-7	A1AA5	27 VDC RLP GROUND (A1CR5 ANODE)	20	355
TB1-10	K5-5	A 745	AGC POWER ON CONTROL (A1CR5 CATHODE)	24	531
TB1-11			SPARE TERMINAL		
TB1-12			SPARE TERMINAL		
TB1-13			SPARE TERMINAL		
TB1-14			SPARE TERMINAL		
TB1-15			SPARE TERMINAL		
TB1-16			SPARE TERMINAL		
TB1-17			A1CR9 ANODE - SPARE		
TB1-18			A1CR9 CATHODE - SPARE		
TB1-19	K6-11	A 753	AGE POWER TRANSFER LO (A1CR10 ANODE)	20	534
TB1-20	K6-4	A 748	AGE POWER TRANSFER LINE B (A1CR10 CATHODE)	20	533
TB1-21	TB1-23	A1AA1	JUNCTION A1R1 AND A1C1	20	610
TB1-22	P1-D	A 953	PROCEED VOLTAGE TO A1R1	24	555
TB1-23	TB1-21	A1AA1	JUNCTION A1R1 AND A1C1	20	610
TB1-24	P1-W	A 959	OFF-NORM CONT (NOT HOME POS) TO A1C1	24	576
TB2 TERMINAL BOARD POWER (1015918-115)					
TB2-1	TB2-2		JUMPER STRAP		131
TB2-1	K1-A01	A 726	ISS OPERATE POWER LINE B HI	12	131
TB2-2	TB2-1		JUMPER STRAP		131
TB2-2	TB2-3		JUMPER STRAP		131
TB2-2	J21-D	A 304	+28 VDC IMU BUS B	12	131
TB2-3	TB2-2		JUMPER STRAP		131

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB10	TERMINAL BOARD BUS AGC ZERO VDC (1900837)				
TB10-16	TB10-15		SOLID BUS-AGE ZERO VDC		7
	TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB11-1A	TB11-1B		INTERNAL BUS		303
TB11-1A	J4-E*	A 68	FINE ALIGN. RELAY CONTROL	24	303
TB11-1B	TB11-1A		INTERNAL BUS		303
TB11-1B	TB11-1C		INTERNAL BUS		303
TB11-1B	J27-8B	A 441	FINE ALIGN RELAY CONTROL	24	303
TB11-1C	TB11-1B		INTERNAL BUS		303
TB11-1C	TB11-1D		INTERNAL BUS		303
TB11-1C	J39-EE	A 614	FINE ALIGN RELAY CONTROL (K-4)	24	303
TB11-1D	TB11-1C		INTERNAL BUS		303
TB11-1D	TB11-1E		INTERNAL BUS		303
TB11-1E	TB11-1D		INTERNAL BUS		303
TB11-1E	TB11-1F		INTERNAL BUS		303
TB11-1F	TB11-1E		INTERNAL BUS		303
TB11-2A	TB11-2B		INTERNAL BUS		268
TB11-2A	TB11-3A	AA116	FINE ALIGN RELAY CONTROL	20	268
TB11-2B	TB11-2A		INTERNAL BUS		268
TB11-2B	TB11-2C		INTERNAL BUS		268
TB11-2B	J32-PP	A 499W	28 V 800 CPS 0 DEG 1 PERCENT LO	24	268
TB11-2C	TB11-2B		INTERNAL BUS		268
TB11-2C	TB11-2D		INTERNAL BUS		268
TB11-2C	J32-NN	A 498W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-2D	TB11-2C		INTERNAL BUS		268
TB11-2D	TB11-2E		INTERNAL BUS		268
TB11-2D	J33-PP	A 520W	28 V 800 CPS 0 DEG 1 PERCENT LO	24	268
TB11-2E	TB11-2D		INTERNAL BUS		268
TB11-2E	TB11-2F		INTERNAL BUS		268

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-2E	J33-NN	A 519W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-2F	TB11-2E		INTERNAL BUS		268
TB11-2F	J38-PP	A 605W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-3A	TB11-3B		INTERNAL BUS		268
TB11-3A	TB11-2A	AA116	FINE ALIGN RELAY CONTROL	20	268
TB11-3B	TB11-3A		INTERNAL BUS		268
TB11-3B	TB11-3C		INTERNAL BUS		268
TB11-3B	J38-NN	A 604W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
TB11-3C	TB11-3B		INTERNAL BUS		268
TB11-3C	TB11-3D		INTERNAL BUS		268
TB11-3D	TB11-3C		INTERNAL BUS		268
TB11-3D	TB11-3E		INTERNAL BUS		268
TB11-3D	J4-G*	A 70R	800 CPS 28 V 1 PCT HI IMU	20	268
TB11-3E	TB11-3D		INTERNAL BUS		268
TB11-3E	TB11-3F		INTERNAL BUS		268
TB11-3E	J45-Z*	A 710R	28 VOLT RMS 800 CPS 1 PERCENT HI	24	268
TB11-3F	TB11-3E		INTERNAL BUS		268
TB11-3F	TB11-4F	AA117	28 VOLT 800 CPS 1 PER CENT HI	20	268
TB11-4A	TB11-4B		INTERNAL BUS		268
TB11-4A	J32-C*	A 483R	28 VOLT 800 CPS 1 PERCENT HI	24	268
TB11-4B	TB11-4A		INTERNAL BUS		268
TB11-4B	TB11-4C		INTERNAL BUS		268
TB11-4B	J33-C*	A 504R	28 VOLT 800 CPS 1 PERCENT HI	24	268
TB11-4C	TB11-4B		INTERNAL BUS		268
TB11-4C	TB11-4D		INTERNAL BUS		268
TB11-4C	J38-C*	A 589R	28 V 800 CPS 1 PERCENT HI	24	268
TB11-4D	TB11-4C		INTERNAL BUS		268
TB11-4D	TB11-4E		INTERNAL BUS		268
TB11-4D	J25-T	A 385R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	268
TB11-4E	TB11-4D		INTERNAL BUS		268
TB11-4E	TB11-4F		INTERNAL BUS		268
TB11-4F	TB11-4E		INTERNAL BUS		268

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SCALE - NONE	REV LTR C	SHEET 212 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-4F	TB11-3F	AA117	28 VOLT 800 CPS 1 PER CENT HI	20	268
TB11-5A	TB11-5B		INTERNAL BUS		269
TB11-5A	J32-D*	A 483L	28 VOLT 800 CPS 1 PERCENT LO	24	269
TB11-5B	TB11-5A		INTERNAL BUS		269
TB11-5B	TB11-5C		INTERNAL BUS		269
TB11-5B	J33-D*	A 504L	28 VOLT 800 CPS 1 PERCENT LO	24	269
TB11-5C	TB11-5B		INTERNAL BUS		269
TB11-5C	TB11-5D		INTERNAL BUS		269
TB11-5C	J38-D*	A 589L	28 V 800 CPS 1 PERCENT LO	24	269
TB11-5D	TB11-5C		INTERNAL BUS		269
TB11-5D	TB11-5E		INTERNAL BUS		269
TB11-5D	J4-H*	A 70L	800 CPS 28 V 1 PCT LO IMU	20	269
TB11-5E	TB11-5D		INTERNAL BUS		269
TB11-5E	TB11-5F		INTERNAL BUS		269
TB11-5E	J45-Y*	A 710L	28 VOLT RMS 800 CPS 1 PERCENT LO	24	269
TB11-5F	TB11-5E		INTERNAL BUS		269
TB11-5F	TB11-6F	AA118	28 VOLT 800 CPS 1 PER CENT LO	20	269
TB11-6A	TB11-6B		INTERNAL BUS		269
TB11-6B	TB11-6A		INTERNAL BUS		269
TB11-6B	TB11-6C		INTERNAL BUS		269
TB11-6C	TB11-6B		INTERNAL BUS		269
TB11-6C	TB11-6D		INTERNAL BUS		269
TB11-6D	TB11-6C		INTERNAL BUS		269
TB11-6D	TB11-6E		INTERNAL BUS		269
TB11-6D	J25-U	A 385L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	269
TB11-6E	TB11-6D		INTERNAL BUS		269
TB11-6E	TB11-6F		INTERNAL BUS		269
TB11-6F	TB11-6E		INTERNAL BUS		269
TB11-6F	TB11-5F	AA118	28 V 800 CPS 1 PER CENT LO	20	269
TB11-7A	TB11-7B		INTERNAL BUS		153
TB11-7A	J4-J*	A 71R	SIN AOG 1X S2 (LO)	24	153
TB11-7B	TB11-7A		INTERNAL BUS		153

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SCALE - NONE	REV LTR C	SHEET 213 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-7B	TB11-7C		INTERNAL BUS		153
TB11-7B	J5-Z*	A 104L	SIN AOG 1X S2 (LO)	24	153
TB11-7C	TB11-7B		INTERNAL BUS		153
TB11-7C	TB11-7D		INTERNAL BUS		153
TB11-7D	TB11-7C		INTERNAL BUS		153
TB11-7D	TB11-7E		INTERNAL BUS		153
TB11-7E	TB11-7D		INTERNAL BUS		153
TB11-7E	TB11-7F		INTERNAL BUS		153
TB11-7F	TB11-7E		INTERNAL BUS		153
TB11-7F	J22-J	A 312	IMU SIN AOG 1X LO	24	153
TB11-8A	TB11-8B		INTERNAL BUS		156
TB11-8A	J4-K*	A 71L	SIN AOG 1X S4 (HI)	24	156
TB11-8B	TB11-8A		INTERNAL BUS		156
TB11-8B	TB11-8C		INTERNAL BUS		156
TB11-8B	J5-Y*	A 104R	SIN AOG 1X S4 (HI)	24	156
TB11-8C	TB11-8B		INTERNAL BUS		156
TB11-8C	TB11-8D		INTERNAL BUS		156
TB11-8D	TB11-8C		INTERNAL BUS		156
TB11-8D	TB11-8E		INTERNAL BUS		156
TB11-8D	K67-10	A 948	OG IMU 1 X SIN HI	24	156
TB11-8E	TB11-8D		INTERNAL BUS		156
TB11-8E	TB11-8F		INTERNAL BUS		156
TB11-8E	K52-16	A 892	OG IMU 1 X SIN HI	24	156
TB11-8F	TB11-8E		INTERNAL BUS		156
TB11-9A	TB11-9B		INTERNAL BUS		170
TB11-9B	TB11-9A		INTERNAL BUS		170
TB11-9B	TB11-9C		INTERNAL BUS		170
TB11-9C	TB11-9B		INTERNAL BUS		170
TB11-9C	TB11-9D		INTERNAL BUS		170
TB11-9D	TB11-9C		INTERNAL BUS		170
TB11-9D	TB11-9E		INTERNAL BUS		170
TB11-9D	K63-14	A 936R	MG 1 X SIN HI (BAI)	24	170

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T813	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-4C	TB13-4D		INTERNAL BUS		202
TB13-4C	J37-D*	A 577R	SHAFT CDU 1/2X COS HI	24	202
TB13-4D	TB13-4C		INTERNAL BUS		202
TB13-4D	TB13-4E		INTERNAL BUS		202
TB13-4D	J41-J*	A 649R	SHAFT CDU 1/2X COS HI	24	202
TB13-4E	TB13-4D		INTERNAL BUS		202
TB13-4E	TB13-4F		INTERNAL BUS		202
TB13-4F	TB13-4E		INTERNAL BUS		202
TB13-5A	TB13-5B		INTERNAL BUS		204
TB13-5A	J23-N*	A 346L	SCT 1/2 X SHAFT RSVR P2	24	204
TB13-5B	TB13-5A		INTERNAL BUS		204
TB13-5B	TB13-5C		INTERNAL BUS		204
TB13-5B	J24-X*	A 369L	SHAFT CDU 1/2X COSINE HI P2	24	204
TB13-5C	TB13-5B		INTERNAL BUS		204
TB13-5C	TB13-5D		INTERNAL BUS		204
TB13-5C	J37-E*	A 577L	SHAFT CDU 1/2X COS LO	24	204
TB13-5D	TB13-5C		INTERNAL BUS		204
TB13-5D	TB13-5E		INTERNAL BUS		204
TB13-5D	J41-I*	A 649L	SHAFT CDU 1/2X COS LO	24	204
TB13-5E	TB13-5D		INTERNAL BUS		204
TB13-5E	TB13-5F		INTERNAL BUS		204
TB13-5F	TB13-5E		INTERNAL BUS		204
TB13-6A	TB13-6B		INTERNAL BUS		302
TB13-6A	J4-D*	A 67	LOCK CDU RELAY CONTROL	24	302
TB13-6B	TB13-6A		INTERNAL BUS		302
TB13-6B	TB13-6C		INTERNAL BUS		302
TB13-6B	J27-AA	A 440	LOCK CDU RELAY CONTROL	24	302
TB13-6C	TB13-6B		INTERNAL BUS		302
TB13-6C	TB13-6D		INTERNAL BUS		302
TB13-6C	J39-DD	A 615	CDU MANUAL RELAY CONTROL (TO AGC)	24	302
TB13-6D	TB13-6C		INTERNAL BUS		302
TB13-6D	TB13-6E		INTERNAL BUS		302

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T813	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-6E	TB13-6D		INTERNAL BUS		302
TB13-6E	TB13-6F		INTERNAL BUS		302
TB13-6F	TB13-6E		INTERNAL BUS		302
TB13-7A	TB13-7B		INTERNAL BUS		150
TB13-7A	J5-E	A 86R	IMU IG AND Y GYRO ERROR SIG HI	24	150
TB13-7B	TB13-7A		INTERNAL BUS		150
TB13-7B	TB13-7C		INTERNAL BUS		150
TB13-7B	J22-GG	A 327R	INNER GIMBAL ERROR SIGNAL HI	24	150
TB13-7C	TB13-7B		INTERNAL BUS		150
TB13-7C	TB13-7D		INTERNAL BUS		150
TB13-7C	J26-D*	A 405R	INNER GIMBAL ERROR SIGNAL HI	22	150
TB13-7D	TB13-7C		INTERNAL BUS		150
TB13-7D	TB13-7E		INTERNAL BUS		150
TB13-7E	TB13-7D		INTERNAL BUS		150
TB13-7E	TB13-7F		INTERNAL BUS		150
TB13-7F	TB13-7E		INTERNAL BUS		150
TB13-8A	TB13-8B		INTERNAL BUS		152
TB13-8A	J5-F	A 86L	IMU GIMBAL AND GYRO ERROR SIG LO	24	152
TB13-8B	TB13-8A		INTERNAL BUS		152
TB13-8B	TB13-8C		INTERNAL BUS		152
TB13-8B	J22-HH	A 327L	INNER GIMBAL ERROR SIGNAL LO	24	152
TB13-8C	TB13-8B		INTERNAL BUS		152
TB13-8C	TB13-8D		INTERNAL BUS		152
TB13-8C	J26-E*	A 405L	INNER GIMBAL ERROR SIGNAL LO	22	152
TB13-8D	TB13-8C		INTERNAL BUS		152
TB13-8D	TB13-8E		INTERNAL BUS		152
TB13-8E	TB13-8D		INTERNAL BUS		152
TB13-8E	TB13-8F		INTERNAL BUS		152
TB13-8F	TB13-8E		INTERNAL BUS		152
TB13-9A	TB13-9B		INTERNAL BUS		248
TB13-9A	J4-P	A1117	0 VDC SPACECRAFT	20	248
T813-9B	TB13-9A		INTERNAL BUS		248

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T813	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-9B	TB13-9C		INTERNAL BUS		248
TB13-9B	J25-C*	A 389	0 VDC (SPACECRAFT)	20	248
TB13-9C	TB13-9B		INTERNAL BUS		248
TB13-9C	TB13-9D		INTERNAL BUS		248
TB13-9C	J34-W	A 525	0 VDC (SPACECRAFT)	22	248
TB13-9D	TB13-9C		INTERNAL BUS		248
TB13-9D	TB13-9E		INTERNAL BUS		248
TB13-9E	TB13-9D		INTERNAL BUS		248
TB13-9E	TB13-9F		INTERNAL BUS		248
TB13-9F	TB13-9E		INTERNAL BUS		248
TB13-10A	TB13-10B		INTERNAL BUS		260
TB13-10A	J38-B*	A 588	ZEROING RESOLVER EXCITATION	24	260
TB13-10B	TB13-10C		INTERNAL BUS		260
TB13-10B	TB13-10A		INTERNAL BUS		260
TB13-10B	J33-B*	A 503	ZEROING RESOLVER EXCITATION	24	260
TB13-10C	TB13-10D		INTERNAL BUS		260
TB13-10C	TB13-10B		INTERNAL BUS		260
TB13-10C	J32-B*	A 482	ZEROING RESOLVER EXCITATION	24	260
TB13-10D	TB13-10E		INTERNAL BUS		260
TB13-10D	TB13-10C		INTERNAL BUS		260
TB13-10D	J25-K*	A 265	ZEROING RESOLVER EXCITATION	24	260
TB13-10E	TB13-10F		INTERNAL BUS		260
TB13-10E	TB13-10D		INTERNAL BUS		260
TB13-10F	TB13-10E		INTERNAL BUS		260
TB13-11A	TB13-11B		INTERNAL BUS		263
TB13-11A	J38-DD	A 600	+28 VDC CDU NOT LOCK	24	263
TB13-11B	TB13-11C		INTERNAL BUS		263
TB13-11B	TB13-11A		INTERNAL BUS		263
TB13-11B	J33-DD	A 515	+28 VDC CDU NOT LOCK	24	263
TB13-11C	TB13-11D		INTERNAL BUS		263
TB13-11C	TB13-11B		INTERNAL BUS		263
TB13-11C	J32-DD	A 494	+28 VDC CDU NOT LOCK	24	263

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T813	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
T813-11D	TB13-11E		INTERNAL BUS		263
TB13-11D	T813-11C		INTERNAL BUS		263
T813-11D	J25-M*	A 392	28 VDC CDU NOT LOCK	24	263
TB13-11E	TB13-11F		INTERNAL BUS		263
TB13-11E	TB13-11D		INTERNAL BUS		263
TB13-11F	T813-11E		INTERNAL BUS		263
TB13-12A	TB13-12B		INTERNAL BUS		90
TB13-12A	J45-S*	A 708	+28 VDC IMU	20	90
TB13-12B	TB13-12C		INTERNAL BUS		90
TB13-12B	TB13-12A		INTERNAL BUS		90
TB13-12B	J32-AA	A 17	+28 VDC (IMU)	24	90
TB13-12C	TB13-12D		INTERNAL BUS		90
TB13-12C	TB13-12B		INTERNAL BUS		90
TB13-12C	J33-AA	A 27	+28 VDC (IMU)	24	90
TB13-12D	TB13-12E		INTERNAL BUS		90
TB13-12D	TB13-12C		INTERNAL BUS		90
TB13-12D	J38-AA	A 333	IMU +28 VDC	24	90
TB13-12E	TB13-12F		INTERNAL BUS		90
TB13-12E	TB13-12D		INTERNAL BUS		90
TB13-12E	J11-S*	A 289	+28 VDC IMU	20	90
TB13-12F	TB13-12E		INTERNAL BUS		90
TB13-12F	J25-K	A 785	+28 VDC IMU	20	90
TB13-13A	TB13-13B		INTERNAL BUS		185
TB13-13A	J37-BB	A 581W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
TB13-13B	TB13-13C		INTERNAL BUS		185
TB13-13B	TB13-13A		INTERNAL BUS		185
TB13-13B	J31-EE	A 473W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
TB13-13C	TB13-13D		INTERNAL BUS		185
TB13-13C	TB13-13B		INTERNAL BUS		185
TB13-13C	J35-L	A 553R	28 V 800 CPS 5 PERCENT OPTICS HI	24	185
TB13-13D	TB13-13E		INTERNAL BUS		185
TB13-13D	TB13-13C		INTERNAL BUS		185

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-13D	J23-A	A 331R	28 V 800 CPS 5 PER CENT HI	20	185
TB13-13E	TB13-13F		INTERNAL BUS		185
TB13-13E	TB13-13D		INTERNAL BUS		185
TB13-13F	TB13-13E		INTERNAL BUS		185
TB13-13F	J43-Y	A 666W	800 CPS 5 PERCENT SXT POWER IN HI	22	185
TB13-14A	TB13-14B		INTERNAL BUS		186
TB13-14A	J37-CC	A 266	28 V 800 CPS 5 PERCENT LO	24	186
TB13-14B	TB13-14C		INTERNAL BUS		186
TB13-14B	TB13-14A		INTERNAL BUS		186
TB13-14B	J31-FF	A 474	800 CPS 5 PERCENT LO	24	186
TB13-14C	TB13-14D		INTERNAL BUS		186
TB13-14C	TB13-14B		INTERNAL BUS		186
TB13-14C	J35-M	A 553L	28 VOLT 800 CPS 5 PERCENT OPTICS LO	24	186
TB13-14D	TB13-14E		INTERNAL BUS		186
TB13-14D	TB13-14C		INTERNAL BUS		186
TB13-14D	J23-B	A 331L	28 V 800 CPS 5 PER CENT LO	20	186
TB13-14E	TB13-14F		INTERNAL BUS		186
TB13-14E	TB13-14D		INTERNAL BUS		186
TB13-14F	TB13-14E		INTERNAL BUS		186
TB13-14F	J24-E	A 264	28V 800 CPS 5 PERCENT LO	20	186
TB13-15A	TB13-15B		INTERNAL BUS		198
TB13-15A	J37-Y	A 575R	28 V 800 CPS 0 DEG 1 PERCENT HI	24	198
TB13-15B	TB13-15C		INTERNAL BUS		198
TB13-15B	TB13-15A		INTERNAL BUS		198
TB13-15B	J31-Y	A 459R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198
TB13-15C	TB13-15D		INTERNAL BUS		198
TB13-15C	TB13-15B		INTERNAL BUS		198
TB13-15D	TB13-15E		INTERNAL BUS		198
TB13-15D	TB13-15C		INTERNAL BUS		198
TB13-15E	TB13-15F		INTERNAL BUS		198
TB13-15E	TB13-15D		INTERNAL BUS		198
TB13-15E	J31-B*	A 460R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198

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SCALE - NONE	REV LTR C	SHEET 227 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-15F	TB13-15E		INTERNAL BUS		198
TB13-15F	TB13-17F	AA120	28 V 800 CPS 1 PER CENT 0 DEG HI	20	198
TB13-16A	TB13-16B		INTERNAL BUS		200
TB13-16A	J37-Z	A 575L	28 V 800 CPS 0 DEG 1 PERCENT LO	24	200
TB13-16B	TB13-16C		INTERNAL BUS		200
TB13-16B	TB13-16A		INTERNAL BUS		200
TB13-16B	J31-Z	A 459L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
TB13-16C	TB13-16D		INTERNAL BUS		200
TB13-16C	TB13-16B		INTERNAL BUS		200
TB13-16D	TB13-16E		INTERNAL BUS		200
TB13-16D	TB13-16C		INTERNAL BUS		200
TB13-16D	J31-D*	A1061	28 V 800 CPS 1 PERCENT 0 DEG LO	20	200
TB13-16E	TB13-16F		INTERNAL BUS		200
TB13-16E	TB13-16D		INTERNAL BUS		200
TB13-16E	J31-C*	A 460L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
TB13-16F	TB13-16E		INTERNAL BUS		200
TB13-16F	TB13-18F	AA121	28 V 800 CPS 1 PER CENT LO	20	200
TB13-17A	TB13-17B		INTERNAL BUS		198
TB13-17A	TB13-19A	AA147	28 V 800 CPS 1 PER CENT HI	20	198
TB13-17B	TB13-17C		INTERNAL BUS		198
TB13-17B	TB13-17A		INTERNAL BUS		198
TB13-17B	J23-J	A 336R	28 V 800 CPS 1 PER CENT HI	20	198
TB13-17C	TB13-17D		INTERNAL BUS		198
TB13-17C	TB13-17B		INTERNAL BUS		198
TB13-17C	J24-CC	A 372R	800 CPS 28 V 1 PERCENT HI OPTICS	24	198
TB13-17D	TB13-17E		INTERNAL BUS		198
TB13-17D	TB13-17C		INTERNAL BUS		198
TB13-17D	J35-Y	A 555R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
TB13-17E	TB13-17F		INTERNAL BUS		198
TB13-17E	TB13-17D		INTERNAL BUS		198
TB13-17E	K20-12	A 810R	28 V 800 CPS 1 PER CENT OPTICS HI	22	198
TB13-17F	TB13-17E		INTERNAL BUS		198

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-17F	TB13-15F	AA120	28 V 800 CPS 1 PER CENT OPTICS HI	20	198
TB13-18A	TB13-18B		INTERNAL BUS		200
TB13-18A	TB13-20A	AA146	28 V 800 CPS 1 PER CENT LO	20	200
TB13-18B	TB13-18C		INTERNAL BUS		200
TB13-18B	TB13-18A		INTERNAL BUS		200
TB13-18B	J23-K	A 336L	28 V 800 CPS 1 PER CENT LO	20	200
TB13-18C	TB13-18D		INTERNAL BUS		200
TB13-18C	TB13-18B		INTERNAL BUS		200
TB13-18C	J24-DD	A 372L	800 CPS 28 V 1 PERCENT LO OPTICS	24	200
TB13-18D	TB13-18E		INTERNAL BUS		200
TB13-18D	TB13-18C		INTERNAL BUS		200
TB13-18D	J35-Z	A 555L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
TB13-18E	TB13-18F		INTERNAL BUS		200
TB13-18E	TB13-18D		INTERNAL BUS		200
TB13-18E	K20-10	A 810L	28 V 800 CPS 1 PER CENT OPTICS LO	22	200
TB13-18F	TB13-18E		INTERNAL BUS		200
TB13-18F	TB13-16F	AA121	28 V 800 CPS 1 PER CENT OPTICS LO	20	200
TB13-19A	TB13-19B		INTERNAL BUS		198
TB13-19A	TB13-17A	AA147	28 V 800 CPS 1 PERCENT HI	20	198
TB13-19B	TB13-19C		INTERNAL BUS		198
TB13-19B	TB13-19A		INTERNAL BUS		198
TB13-19B	J24-J	A 352R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
TB13-19C	TB13-19D		INTERNAL BUS		198
TB13-19C	TB13-19B		INTERNAL BUS		198
TB13-19C	J24-JJ	A 270R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
TB13-19D	TB13-19E		INTERNAL BUS		198
TB13-19D	TB13-19C		INTERNAL BUS		198
TB13-19D	J37-PP	A 584R	28 V 800 CPS 1 PERCENT HI	24	198
TB13-19E	TB13-19F		INTERNAL BUS		198
TB13-19E	TB13-19D		INTERNAL BUS		198
TB13-19F	TB13-19E		INTERNAL BUS		198
TB13-20A	TB13-20B		INTERNAL BUS		200

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SCALE - NONE	REV LTR C	SHEET 229 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-20A	TB13-18A	AA146	28 V 800 CPS 1 PERCENT OPTICS LO	20	200
TB13-20B	TB13-20C		INTERNAL BUS		200
TB13-20B	TB13-20A		INTERNAL BUS		200
TB13-20B	J24-K	A 352L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
TB13-20C	TB13-20D		INTERNAL BUS		200
TB13-20C	TB13-20B		INTERNAL BUS		200
TB13-20C	J24-KK	A 270L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
TB13-20D	TB13-20E		INTERNAL BUS		200
TB13-20D	TB13-20C		INTERNAL BUS		200
TB13-20D	J37-MM	A 584L	28 V 800 CPS 1 PERCENT LO	24	200
TB13-20E	TB13-20F		INTERNAL BUS		200
TB13-20E	TB13-20D		INTERNAL BUS		200
TB13-20E	J37-NN	A 584Y	28 V 800 CPS 1 PERCENT LO	24	200
TB13-20F	TB13-20E		INTERNAL BUS		200
TB14	TERMINAL BOARD BUS OPTICS ZERO VDC (1900837)				
TB14-1	TB14-2		SOLID BUS-OPTICS ZERO VDC		7
TB14-2	TB14-1		SOLID BUS-OPTICS ZERO VDC		7
TB14-2	TB14-3		SOLID BUS-OPTICS ZERO VDC		7
TB14-3	TB14-2		SOLID BUS-OPTICS ZERO VDC		7
TB14-3	TB14-4		SOLID BUS-OPTICS ZERO VDC		7
TB14-4	TB14-3		SOLID BUS-OPTICS ZERO VDC		7
TB14-4	TB14-5		SOLID BUS-OPTICS ZERO VDC		7
TB14-4	J30-E	A 455	0 VDC OPTICS	12	7
TB14-5	TB14-4		SOLID BUS-OPTICS ZERO VDC		7
TB14-5	TB14-6		SOLID BUS-OPTICS ZERO VDC		7
TB14-6	TB14-5		SOLID BUS-OPTICS ZERO VDC		7
TB14-6	TB14-7		SOLID BUS-OPTICS ZERO VDC		7
TB14-6	J11-BB	A 295	0 VDC OPTICS	20	7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB14	TERMINAL BOARD BUS OPTICS ZERO VDC (1900837)				
TB14-7	TB14-6		SOLID BUS-OPTICS ZERO VDC		7
TB14-7	TB14-8		SOLID BUS-OPTICS ZERO VDC		7
TB14-8	TB14-7		SOLID BUS-OPTICS ZERO VDC		7
TB14-8	TB14-9		SOLID BUS-OPTICS ZERO VDC		7
TB14-8	J43-V	A 664	OPTICS POWER 28 VDC RETURN	20	7
TB14-9	TB14-10		SOLID BUS-OPTICS ZERO VDC		7
TB14-9	TB14-8		SOLID BUS-OPTICS ZERO VDC		7
TB14-10	TB14-11		SOLID BUS-OPTICS ZERO VDC		7
TB14-10	TB14-9		SOLID BUS-OPTICS ZERO VDC		7
TB14-10	J40-U	A 627	D VDC OPTICS	12	7
TB14-11	TB14-12		SOLID BUS-OPTICS ZERO VDC		7
TB14-11	TB14-10		SOLID BUS-OPTICS ZERO VDC		7
TB14-12	TB14-13		SOLID BUS-OPTICS ZERO VDC		7
TB14-12	TB14-11		SOLID BUS-OPTICS ZERO VDC		7
TB14-12	J46-U	A 724	D VDC OPTICS	12	7
TB14-13	TB14-14		SOLID BUS-OPTICS ZERO VDC		7
TB14-13	TB14-12		SOLID BUS-OPTICS ZERO VDC		7
TB14-14	TB14-15		SOLID BUS-OPTICS ZERO VDC		7
TB14-14	TB14-13		SOLID BUS-OPTICS ZERO VDC		7
TB14-14	K4-10	A1115	OPTICS POWER 28 VDC RETURN	20	7
TB14-15	TB14-16		SOLID BUS-OPTICS ZERO VDC		7
TB14-15	TB14-14		SOLID BUS-OPTICS ZERO VDC		7
TB14-16	TB14-15		SOLID BUS-OPTICS ZERO VDC		7
TB14-16	TB88-16	A 972	AGE ZERO VDC	12	7
	TB15 TERMINAL BOARD BUS SHIELD GROUND (1900837)				
TB15-1	TB15-2		SOLID BUS-SHIELD GROUND		3
TB15-1	J21-G	A 307	SHIELD GND	12	3
TB15-2	TB15-1		SOLID BUS-SHIELD GROUND		3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB15	TERMINAL BOARD BUS SHIELD GROUND (1900837)				
TB15-2	TB15-3		SOLID BUS-SHIELD GROUND		3
TB15-2	E79BB	A1039	SHIELD GROUND	16	3
TB15-3	TB15-2		SOLID BUS-SHIELD GROUND		3
TB15-3	TB15-4		SOLID BUS-SHIELD GROUND		3
TB15-3	J30-K	A1076	SHIELD GROUND	16	3
TB15-4	TB15-3		SOLID BUS-SHIELD GROUND		3
TB15-4	TB15-5		SOLID BUS-SHIELD GROUND		3
TB15-4	E80BB	A1040	SHIELD GROUND	16	3
TB15-5	TB15-4		SOLID BUS-SHIELD GROUND		3
TB15-5	TB15-6		SOLID BUS-SHIELD GROUND		3
TB15-5	E78BB	A1038	SHIELD GROUND	16	3
TB15-6	TB15-5		SOLID BUS-SHIELD GROUND		3
TB15-6	TB15-7		SOLID BUS-SHIELD GROUND		3
TB15-6	E31BB	A 992	SHIELD GROUND	16	3
TB15-7	TB15-6		SOLID BUS-SHIELD GROUND		3
TB15-7	TB15-8		SOLID BUS-SHIELD GROUND		3
TB15-7	E77BB	A1037	SHIELD GROUND	16	3
TB15-8	TB15-7		SOLID BUS-SHIELD GROUND		3
TB15-8	TB15-9		SOLID BUS-SHIELD GROUND		3
TB15-8	E39BB	A1000	SHIELD GROUND	16	3
TB15-9	TB15-10		SOLID BUS-SHIELD GROUND		3
TB15-9	TB15-8		SOLID BUS-SHIELD GROUND		3
TB15-9	E40BB	A1001	SHIELD GROUND	16	3
TB15-10	TB15-11		SOLID BUS-SHIELD GROUND		3
TB15-10	TB15-9		SOLID BUS-SHIELD GROUND		3
TB15-10	E49BB	A1010	SHIELD GROUND	20	3
TB15-11	TB15-12		SOLID BUS-SHIELD GROUND		3
TB15-11	TB15-10		SOLID BUS-SHIELD GROUND		3
TB15-11	E64BB	A1024	SHIELD GROUND	16	3
TB15-12	TB15-13		SOLID BUS-SHIELD GROUND		3
TB15-12	TB15-11		SOLID BUS-SHIELD GROUND		3
TB15-12	E81BB	A1041	SHIELD GROUND	16	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB15	TERMINAL BOARD BUS SHIELD GROUND (1900837)				
TB15-13	TB15-14		SOLID BUS-SHIELD GROUND		3
TB15-13	TB15-12		SOLID BUS-SHIELD GROUND		3
TB15-13	E82BB	A1042	SHIELD GROUND	16	3
TB15-14	TB15-15		SOLID BUS-SHIELD GROUND		3
TB15-14	TB15-13		SOLID BUS-SHIELD GROUND		3
TB15-14	E88BB	A1049	SHIELD GROUND	16	3
TB15-15	TB15-16		SOLID BUS-SHIELD GROUND		3
TB15-15	TB15-14		SOLID BUS-SHIELD GROUND		3
TB15-15	J40-X	A1106	SHIELD GROUND	12	3
TB15-16	TB15-15		SOLID BUS-SHIELD GROUND		3
TB15-16	J30-G	A 976	SHIELD GROUND	12	3
	TB16 TERMINAL BOARD BUS ISS ZERO VDC (1900837)				
TB16-1	TB16-2		SOLID BUS-ISS ZERO VDC		7
TB16-1	J5-K	A 261	D VDC (ERROR DETECT LIGHT LO)	20	7
TB16-2	TB16-1		SOLID BUS-ISS ZERO VDC		7
TB16-2	TB16-3		SOLID BUS-ISS ZERO VDC		7
TB16-2	J21-E	A 305	0 VDC IMU	12	7
TB16-3	TB16-2		SOLID BUS-ISS ZERO VDC		7
TB16-3	TB16-4		SOLID BUS-ISS ZERO VDC		7
TB16-3	J5-M	A 82	GIMBAL LOCK SIGNAL LO	20	7
TB16-4	TB16-3		SOLID BUS-ISS ZERO VDC		7
TB16-4	TB16-5		SOLID BUS-ISS ZERO VDC		7
TB16-4	J21-F	A 306	0 VDC ISS	12	7
TB16-5	TB16-4		SOLID BUS-ISS ZERO VDC		7
TB16-5	TB16-6		SOLID BUS-ISS ZERO VDC		7
TB16-5	J10-B*	A1193	D VDC IMU	20	7
TB16-6	TB16-5		SOLID BUS-ISS ZERO VDC		7
TB16-6	TB16-7		SOLID BUS-ISS ZERO VDC		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB16	TERMINAL BOARD BUS ISS ZERO VDC (1900837)				
TB16-6	E87BB	A1047	ISS ZERO VDC	16	7
TB16-7	TB16-6		SOLID BUS-ISS ZERO VDC		7
TB16-7	TB16-8		SOLID BUS-ISS ZERO VDC		7
TB16-7	J40-E	A 618	0 VDC IMU	16	7
TB16-8	TB16-7		SOLID BUS-ISS ZERO VDC		7
TB16-8	TB16-9		SOLID BUS-ISS ZERO VDC		7
TB16-8	J40-S	A 625	0 VDC IMU	12	7
TB16-9	TB16-10		SOLID BUS-ISS ZERO VDC		7
TB16-9	TB16-8		SOLID BUS-ISS ZERO VDC		7
TB16-9	J46-E	A 715	0 VDC IMU	16	7
TB16-10	TB16-11		SOLID BUS-ISS ZERO VDC		7
TB16-10	TB16-9		SOLID BUS-ISS ZERO VDC		7
TB16-10	J40-T	A 626	0 VDC IMU	12	7
TB16-11	TB16-12		SOLID BUS-ISS ZERO VDC		7
TB16-11	TB16-10		SOLID BUS-ISS ZERO VDC		7
TB16-11	E92BB	A1073	ISS OPERATE POWER 0 VDC	16	7
TB16-12	TB16-13		SOLID BUS-ISS ZERO VDC		7
TB16-12	TB16-11		SOLID BUS-ISS ZERO VDC		7
TB16-12	J46-S	A 722	0 VDC IMU	12	7
TB16-13	TB16-14		SOLID BUS-ISS ZERO VDC		7
TB16-13	TB16-12		SOLID BUS-ISS ZERO VDC		7
TB16-14	TB16-15		SOLID BUS-ISS ZERO VDC		7
TB16-14	TB16-13		SOLID BUS-ISS ZERO VDC		7
TB16-14	J46-T	A 723	0 VDC IMU	12	7
TB16-15	TB16-16		SOLID BUS-ISS ZERO VDC		7
TB16-15	TB16-14		SOLID BUS-ISS ZERO VDC		7
TB16-16	TB16-15		SOLID BUS-ISS ZERO VDC		7
TB16-16	TB8-2	A 973	AGE ZERO VDC	12	7

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-20B	TB17-20C		INTERNAL BUS		270
TB17-20B	TB17-20A		INTERNAL BUS		270
TB17-20B	J32-Z*	A 491L	25.6 KC ENCODER EXCITATION HI	24	270
TB17-20C	TB17-20D		INTERNAL BUS		270
TB17-20C	TB17-20B		INTERNAL BUS		270
TB17-20C	J33-Z*	A 512L	25.6 KC ENCODER EXCITATION HI	24	270
TB17-20D	TB17-20E		INTERNAL BUS		270
TB17-20D	TB17-20C		INTERNAL BUS		270
TB17-20D	J25-V	A 386R	2.5 VOLT 25.6 KC HI	24	270
TB17-20E	TB17-20F		INTERNAL BUS		270
TB17-20E	TB17-20D		INTERNAL BUS		270
TB17-20F	TB17-20E		INTERNAL BUS		270
	XF1 FUSE HOLDER (1015873-008) WITH FUSE (MS90078-13-1)				
XF1-1	K3-3	A 735	AGE 28 VDC VARIABLE POWER HI	16	524
XF1-2	TB5-7	A 977	28 VDC AGE POWER HI	16	524
	XF2 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-6-1)				
XF2-1	K2-A02	A 731	AGE 28 VDC VARIABLE POWER HI	12	524
XF2-2	TB5-8	A 978	28 VDC AGE POWER HI	12	524
	XF3 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				

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SCALE - NONE	REV LTR C	SHEET 243 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) XF3	FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				
XF3-1	K4-3	A 740	AGE 28 VDC VARIABLE POWER HI	16	524
XF3-2	TB5-9	A 979	28 VDC AGE POWER HI	16	524
	XF4 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				
XF4-1	K5-3	A 744	AGE 28 VDC VARIABLE POWER HI	16	524
XF4-2	TB5-10	A 980	28 VDC AGE POWER HI	16	524
	XF5 FUSE HOLDER (1015873-005) WITH FUSE (1015973-10)				
XF5-1	2V 3200 CPS	A1108R	2 V 3200 CPS HI		
XF5-2	J3-GG	A 59R	3200 CPS 2V HI	20	245
	XF17 FUSE HOLDER (1015873-005) WITH FUSE (MS90078-2-1)				
XF17-1	J34-A	A 272W	1.5 VOLT 400 CPS O PH	24	39
XF17-2	J10-G*	A1056W	400 CPS 1.5 V O PH	24	39
	XF18 FUSE HOLDER (1015873-005) WITH FUSE (MS90078-2-1)				
XF18-1	J34-E	A 273W	1.5 VOLT 400 CPS PI PH	24	42
XF18-2	J10-H*	A1057W	400 CPS 1.5 V PI PH	24	42

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SCALE - NONE	REV LTR C	SHEET 244 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	XF19 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				
*XF19-1	J7-AA	A 145	27 VDC HI OIA ON	20	525
XF19-1	J7-C	A1083	27 VDC HI OIA ON	20	525
XF19-2	TB7-11E	A1098	27 VDC RELAY AND LAMP POWER HI	20	525
XF19-2	TB7-8C	A1099	27 VDC RELAY AND LAMP POWER HI	20	525
	XF20 FUSE HOLDER (1015873-008) WITH FUSE (MS90078-15-1)				
XF20-1	J7-C*	A1152	28 VDC AGE HI	20	524
XF20-2	TB5-7	A 128	28 VDC AGE POWER REMOTE SENSE HI	20	524

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SCALE - NONE	REV LTR C	SHEET 245 OF 245

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	48L		J3-H* K44-9	8 223				.22 .31	NO YES		49	
A	48R		J3-G* K44-6	8 223				.22 .31	NO YES		49	
A	49	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	49A	2	SHLD A49 E24-8	6				.25 .38	NO NO			
A	49L		J3-J* K49-12	8 228				.22 .31	NO YES		49	
A	49R		J3-K* K49-9	8 228				.22 .31	NO YES		49	
A	50	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A	50A	2	SHLD A50 E24-8	6				.25 .38	NO NO			
A	50L		J3-N* K49-6	8 228				.22 .31	NO YES		49	
A	50R		J3-M* K49-3	8 228				.22 .31	NO YES		49	
A	51	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	51A	2	SHLD A51 E24-8	6				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	51L		J3-O* K48-15	8 227				.22 .31	NO YES		49	
A	51R		J3-P* K48-12	8 227				.22 .31	NO YES		49	
A	52	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	52A	2	SHLD A52 E24-8	6				.25 .38	NO NO			
A	52L		J3-S* K48-9	8 227				.22 .31	NO YES		49	
A	52R		J3-R* K48-6	8 227				.22 .31	NO YES		49	
A	53	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	58A	2	SHLD A53 E25-8	7				.25 .38	NO NO			
A	53L		J3-U* K53-12	8 232				.22 .31	NO YES		49	
A	53R		J3-T* K53-9	8 232				.22 .31	NO YES		49	
A	54	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A	54A	2	SHLD A54 E25-8	7				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 24 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	54L		J3-W* K53-6	8 232				.22 .31	NO YES		49	
A	54R		J3-V* K53-3	8 232				.22 .31	NO YES		49	
A	55	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	55A	2	SHLD A55 E25-8	7				.25 .38	NO NO			
A	55L		J3-X* K52-15	8 231				.22 .31	NO YES		49	
A	55R		J3-Y* K52-12	8 231				.22 .31	NO YES		49	
A	56	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	56A	2	SHLD A56 E25-8	7				.25 .38	NO NO			
A	56L		J3-BB K52-9	8 231				.22 .31	NO YES		49	
A	56R		J3-AA K52-6	8 231				.22 .31	NO YES		49	
A	59	12			2.80 2.50	2.50 2.20				2 1	90, 67, 59 50	
A	59A	2	SHLD A59 E25-8	7				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 25 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	59L		J3-HH E6	8 145				.22 .25	NO YES			
A	59R		J3-GG XF5-2	8 144				.22 .31	NO YES			
A	60	12			3.30 2.50	3.00 2.20				2 1	90, 67, 59 50	
A	60A	2	SHLD A60 E25-8	7				.25 .38	NO NO			
A	60L		J3-KK TB7-10D	8 33				.22 .19	NO YES		43	
A	60R		J3-JJ TB7-9D	8 33				.22 .19	NO YES		43	
A	62	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	62A	2	SHLD A62 E2[illegible]-8	9				.25 .38	NO NO			
A	62L		J4-T J22-N	12 158				.22 .22	NO NO			
A	62R		J4-S J22-M	12 158				.22 .22	NO NO			
A	63	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A	63A	2	SHLD A63 E26-8	9				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 26 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			J35-S	300				.22	NO			
			T86-128	38				.19	NO		42	
A 279	1		J11-I*	32				.22	NO			
			J25-J	154				.22	NO			
A 280	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 280A	2		SHLD A280					.25	NO			
			E34-8	31				.38	NO			
A 280L			J11-D*	32				.22	NO			
			J27-N*	168				.22	NO			
A 280R			J11-C*	32				.22	NO			
			J27-M*	168				.22	NO			
A 281	14				1.80	1.50				2	50, 65, 57	
					2.50	2.20				1	52	
A 281A	2		SHLD A281					.25	NO			
			E34-8	31				.38	NO			
A 281L			J11-G*	32				.22	NO			
			J25-S	154				.22	NO			
A 281R			J11-E*	32				.22	NO			
			J25-P	154				.22	NO			
A 281Y			J11-F*	32				.22	NO			
			J25-R	154				.22	NO			
A 282	3		J11-H*	32				.22	NO			
			J25-CC	154				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 283	1		J11-K*	32				.22	NO			
			J25-H	154				.22	NO			
A 284	1		J11-M*	32				.22	NO			
			J25-FF	154				.22	NO			
A 285	1		J11-N*	32				.22	NO			
			J25-GG	154				.22	NO			
A 286	3		J11-P*	32				.22	NO			
			J25-S*	154				.22	NO			
A 287	3		J11-Q*	32				.22	NO			
			J25-T*	154				.22	NO			
A 288	3		J11-R*	32				.22	NO			
			TB12-19	191				.25	YES			
A 289	3		J11-S*	32				.22	NO			
			TB13-12E	266				.19	NO		43	
A 290	3		J11-T*	32				.22	NO			
			E92-8	148				.38	NO			
A 291	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 291A	2		SHLD A291					.25	NO			
			E35-8	30				.38	NO			
A 291L			J11-V*	32				.22	NO			
			J25-V*	154				.22	NO			
A 291R			J11-U*	32				.22	NO			
			J25-U*	154				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 60 OF 199

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 292	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 292A	2		SHLD A292					.25	NO			
			E35-8	30				.38	NO			
A 292L			J11-X*	32				.22	NO			
			J25-X*	154				.22	NO			
A 292R			J11-W*	32				.22	NO			
			J25-W*	154				.22	NO			
A 293	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 293A	2		SHLD A293					.25	NO			
			E35-8	30				.38	NO			
A 293L			J11-Z*	32				.22	NO			
			J25-Z*	154				.22	NO			
A 293R			J11-Y*	32				.22	NO			
			J25-Y*	154				.22	NO			
A 294	3		J11-AA	32				.22	NO			
			TB12-17	190				.25	YES			
A 295	3		J11-BB	32				.22	NO			
			TB14-6	265				.19	NO		39	
A 296	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 296A	2		SHLD A296					.25	NO			
			E35-8	30				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 296L			J11-DD	32				.22	NO			
			J25-H*	154				.22	NO			
A 296R			J11-CC	32				.22	NO			
			J25-G*	154				.22	NO			
A 297	1		J11-LL	32				.22	NO			
			J25-AA	154				.22	NO			
A 298	1		J11-MM	32				.22	NO			
			J25-BB	154				.22	NO			
A 299	1		J11-NN	32				.22	NO			
			J25-DD	154				.22	NO			
A 300	1		J11-PP	32				.22	NO			
			J25-EE	154				.22	NO			
A 301	6		J21-A	149				.41	YES		46	
			TB2-9	91				.31	NO		41	
A 302	6		J21-B	149				.41	YES		46	
			TB2-10	90				.31	NO		41	
A 303	6		J21-C	149				.41	YES		46	
			TB2-3	98				.31	NO		41	
A 304	6		J21-D	149				.41	YES		46	
			TB2-2	99				.31	NO		41	
A 305	6		J21-E	149				.41	YES		46	
			TB16-2	262				.31	NO		41	
A 306	6		J21-F	149				.41	YES		46	
			TB16-4	262				.31	NO		41	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 62 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 323A	2		SHLD A323 E37-B	 156				.25 .38	NO NO			
A 323L			J22-Z* K67-16	158 257				.22 .31	NO YES		48	
A 323R			J22-X* K67-19	158 257				.22 .31	NO YES		48	
A 324	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 324A	2		SHLD A324 E38-B	 157				.25 .38	NO NO			
A 324L			J22-BB K53-7	158 232				.22 .31	NO YES		48	
A 324R			J22-AA K53-4	158 232				.22 .31	NO YES		48	
A 325	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 325A	2		SHLD A325 E38-B	 157				.25 .38	NO NO			
A 325L			J22-DD K53-13	158 232				.22 .31	NO YES		48	
A 325R			J22-CC K53-10	158 232				.22 .31	NO YES		48	
A 326	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326A	2		SHLD A326 E38-B	 157				.25 .38	NO NO			
A 326L			J22-FF K38-13	158 217				.22 .31	NO YES			
A 326R			J22-EE K38-10	158 217				.22 .31	NO YES			
A 327	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 327A	2		SHLD A327 E38-B	 157				.25 .38	NO NO			
A 327L			J22-HH TB13-8B	158 266				.22 .19	NO NO		42	
A 327R			J22-GG TB13-7B	158 266				.22 .19	NO NO		42	
A 328	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 328A	2		SHLD A328 E38-B	 157				.25 .38	NO NO			
A 328L			J22-KK K38-7	158 217				.22 .31	NO YES			
A 328R			J22-JJ K38-4	158 217				.22 .31	NO YES			
A 329	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329A	2		SHLD A329 E38-B	 157				.25 .38	NO NO			
A 329L			J22-MM K54-13	158 241				.22 .31	NO YES			
A 329R			J22-LL K54-10	158 241				.22 .31	NO YES			
A 330	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 330A	2		SHLD A330 E38-8	 157				.25 .38	NO NO			
A 330L			J22-PP K54-7	158 241				.22 .31	NO YES			
A 330R			J22-NN K54-4	158 241				.22 .31	NO YES			
A 331	12				1.80 2.50	1.50 2.20				2 1	90, 67, 59 50	
A 331A	2		SHLD A331 E89-B	 162				.25 .38	NO NO			
A 331L			J23-B TB13-14D	165 266				.22 .19	NO NO		43	
A 331R			J23-A TB13-13D	165 266				.22 .19	NO NO		43	
A 332	3		J23-C E89-B	165 162				.22 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 333	1		J38-AA TB13-12D	293 266				.22 .19	NO NO		42	
A 334	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 334A	2		SHLD A334 E89-B	 162				.25 .38	NO NO			
A 334L			J23-F TB6-13C	165 38				.22 .19	NO NO		42	
A 334R			J23-E TB6-14C	165 38				.22 .19	NO NO		42	
A 334Y			J23-G TB6-12C	165 38				.22 .19	NO NO		42	
A 335	3		J23-H E89-B	165 162				.22 .38	NO NO			
A 336	12				2.80 2.50	2.50 2.20				2 1	90, 67, 59 50	
A 336A	2		SHLD A336 E89-B	 162				.25 .38	NO NO			
A 336L			J23-K TB13-18B	165 266				.22 .19	NO NO		43	
A 336R			J23-J TB13-17B	165 266				.22 .19	NO NO		43	
A 337	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350	9				2.80 2.00	2.50 1.70				2 1	52, 63, 55 53	
A 350A	2		SHLD A350 E41-B	 170				.25 .38	NO NO			
A 350W			J24-D J44-V	173 274				.22 .22	NO NO			
A 351	14				3.30 2.50	3.00 2.20				2 1	50, 65, 57 52	
A 351A	2		SHLD A351 E41-B	 170				.25 .38	NO NO			
A 351L			J24-G J35-V*	173 300				.22 .22	NO NO			
A 351R			J24-F J35-W*	173 300				.22 .22	NO NO			
A 351Y			J24-H J35-X*	173 300				.22 .22	NO NO			
A 352	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 352A	2		SHLD A352 E41-B	 170				.25 .38	NO NO			
A 352L			J24-K TB13-20B	173 266				.22 .19	NO NO		42	
A 352R			J24-J TB13-19B	173 266				.22 .19	NO NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 353	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 353A	2		SHLD A353 E93-B	 172				.25 .38	NO NO			
A 353L			J24-M TB6-5B	173 38				.22 .19	NO NO		42	
A 353R			J24-L TB6-2B	173 38				.22 .19	NO NO		42	
A 356	3		J24-S E93-B	173 172				.22 .38	NO NO			
A 357	3		J24-T E93-B	173 172				.22 .38	NO NO			
A 358	3		J24-U E93-B	173 172				.22 .38	NO NO			
A 359	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 359A	2		SHLD A359 E93-B	 172				.25 .38	NO NO			
A 359L			J24-Y J42-CC	173 279				.22 .22	NO NO			
A 359R			J24-Z J42-DD	173 279				.22 .22	NO NO			
A 360	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 360A	2		SHLD A360 E41-B	 170				.25 .38	NO NO			
A 360L			J24-B* J42-BB	173 279				.22 .22	NO NO			
A 360R			J24-A* J42-AA	173 279				.22 .22	NO NO			
A 361	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 361A	2		SHLD A361 E41-B	 170				.25 .38	NO NO			
A 361L			J24-D* J41-Z*	173 280				.22 .22	NO NO			
A 361R			J24-C* J41-Y*	173 280				.22 .22	NO NO			
A 362	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 362A	2		SHLD A362 E41-B	 170				.25 .38	NO NO			
A 362L			J24-F* TB7-6A	173 33				.22 .19	NO NO		42	
A 362R			J24-E* TB7-5A	173 33				.22 .19	NO NO		42	
A 363	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 363A	2		SHLD A363 E41-B	 170				.25 .38	NO NO			
A 363L			J24-H* TB17-17A	173 261				.22 .19	NO NO		42	
A 363R			J24-G* TB17-18A	173 261				.22 .19	NO NO		42	
A 364	11				2.80 2.50	2.50 2.20				2 1	50, 87, 86 50	
A 364A	2		SHLD A364 E41-B	 170				.25 .38	NO NO			
A 364L			J24-M* J41-CC	173 280				.22 .22	NO NO			
A 364R			J24-K* J41-BB	173 280				.22 .22	NO NO			
A 365	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 365A	2		SHLD A365 E41-B	 170				.25 .38	NO NO			
A 365L			J24-P* J42-HH	173 279				.22 .22	NO NO			
A 365R			J24-N* J42-GG	173 279				.22 .22	NO NO			
A 366	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 385A	2		SHLD A385 E43-B	152				.25 .38	NO NO			
A 385L			J25-U TB11-6D	154 37				.22 .19	NO NO		42	
A 385R			J25-T TB11-4D	154 37				.22 .19	NO NO		42	
A 386	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 386A	2		SHLD A386 E43-B	152				.25 .38	NO NO			
A 386L			J25-W TB17-19D	154 261				.22 .19	NO NO		42	
A 386R			J25-V TB17-20D	154 261				.22 .19	NO NO		42	
A 388	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 388A	2		SHLD A388 E43-B	152				.25 .38	NO NO			
A 388L			J25-B* J3-CC	154 8				.22 .22	NO NO			
A 388R			J25-A* J3-DD	154 8				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 389	3		J25-C* TB13-9B	154 266				.22 .19	NO NO		43	
A 390	3		J25-D* K8-1	154 39				.22 .31	NO YES		46	
A 392	1		J25-M* TB13-11D	154 266				.22 .19	NO NO		42	
A 394	15				1.80 2.50	1.50 2.20				2 1	50, 66, 86 50	
A 394A	2		SHLD A394 E44-B	153				.25 .38	NO NO			
A 394L			J25-KK K47-4	154 226				.22 .31	NO YES		49	
A 394R			J25-HH K47-10	154 226				.22 .31	NO YES		49	
A 394Y			J25-JJ K47-7	154 226				.22 .31	NO YES		48	
A 395	15				2.30 2.50	2.00 2.20				2 1	50, 66, 86 50	
A 395A	2		SHLD A395 E44-B	153				.25 .38	NO NO			
A 395L			J25-NN K51-4	154 230				.22 .31	NO YES		49	
A 395R			J25-LL K51-10	154 230				.22 .31	NO YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 395Y			J25-MM K51-7	154 230				.22 .31	NO YES		48	
A 396	3		J25-PP K22-7	154 202				.22 .31	NO YES		49	
A 397	3		J26-B E47-B	159 161				.22 .38	NO NO			
A 398	14				1.80 2.50	1.50 2.20				3 3	50, 65, 57 50, 65, 57	
A 398A	2		SHLD A398 J26-S	159				.25 .22	NO NO			
A 398B	2		J33-C SHLD A398	304				.22 .25	NO NO			
A 398L			J26-H J33-W*	159 304				.22 .22	NO NO			
A 398R			J26-G J33-V*	159 304				.22 .22	NO NO			
A 398Y			J26-J J33-X*	159 304				.22 .22	NO NO			
A 399	14				2.30 2.50	2.00 2.20				3 3	50, 65, 57 50, 65, 57	
A 399A	2		SHLD A399 J26-A	159				.25 .22	NO NO			
A 399B	2		J38-C SHLD A399	293				.22 .25	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 399L			J26-L J38-W*	159 293				.22 .22	NO NO			
A 399R			J26-K J38-V*	159 293				.22 .22	NO NO			
A 399Y			J26-N J38-X*	159 293				.22 .22	NO NO			
A 400	14				2.80 2.50	2.50 2.20				3 3	50, 65, 57 50, 65, 57	
A 400A	2		SHLD A400 J26-T	159				.25 .22	NO NO			
A 400B	2		J32-C SHLD A400	307				.22 .25	NO NO			
A 400L			J26-P J32-W*	159 307				.22 .22	NO NO			
A 400R			J26-N J32-V*	159 307				.22 .22	NO NO			
A 400Y			J26-R J32-X*	159 307				.22 .22	NO NO			
A 401	12				3.30 2.50	3.00 2.20				2 1	90, 67, 59 50	
A 401A	2		SHLD A401 E45-B	161A				.25 .38	NO NO			
A 401L			J26-V TB7-10B	159 33				.22 .19	NO NO		43	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 488R			J32-P*	307				.22	NO			
			K68-8	258				.31	YES		49	
A 489	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 489A	2		SHLD A489					.25	NO			
			E52-B	308				.38	NO			
A 489L			J32-S*	307				.22	NO			
			K65-10	255				.31	YES		49	
A 489R			J32-R*	307				.22	NO			
			K65-13	255				.31	YES		49	
A 490	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 490A	2		SHLD A490					.25	NO			
			E53-B	309				.38	NO			
A 490L			J32-U*	307				.22	NO			
			K65-4	255				.31	YES		49	
A 490R			J32-T*	307				.22	NO			
			K65-7	255				.31	YES		49	
A 491	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 491A	2		SHLD A491					.25	NO			
			E53-B	309				.38	NO			
A 491L			J32-Z*	307				.22	NO			
			TB17-20B	261				.19	NO		42	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 491R			J32-Y*	307				.22	NO			
			TB17-19B	261				.19	NO		42	
A 492	10				2.80	2.50				2	50, 64, 56	
					2.80	2.50				1	52	
A 492A	2		SHLD A492					.25	NO			
			E53-B	309				.38	NO			
A 492L			J32-CC	307				.22	NO			
			TB13-2B	266				.19	NO		42	
A 492R			J32-BB	307				.22	NO			
			TB13-1B	266				.19	NO		42	
A 494	1		J32-DD	307				.22	NO			
			TB13-11C	266				.19	NO		42	
A 495	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 495A	2		SHLD A495					.25	NO			
			E53-B	309				.38	NO			
A 495L			J32-EE	307				.22	NO			
			K50-8	229				.31	YES			
A 495R			J32-GG	307				.22	NO			
			K50-11	229				.31	YES			
A 495Y			J32-FF	307				.22	NO			
			K50-5	229				.31	YES		49	
A 496	14				1.80	1.50				2	50, 65, 57	
					2.50	2.20				1	52	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 496A	2		SHLD A496					.25	NO			
			E53-B	309				.38	NO			
A 496L			J32-HH	307				.22	NO			
			K51-5	230				.31	YES		49	
A 496R			J32-JJ	307				.22	NO			
			K51-11	230				.31	YES		49	
A 496Y			J32-KK	307				.22	NO			
			K51-7	230				.31	YES			
A 497	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 497A	2		SHLD A497					.25	NO			
			E53-B	309				.38	NO			
A 497L			J32-MM	307				.22	NO			
			TB6-4C	38				.19	NO		42	
A 497R			J32-LL	307				.22	NO			
			TB6-1C	38				.19	NO		42	
A 498	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 498A	2		SHLD A498					.25	NO			
			E53-B	309				.38	NO			
A 498W			J32-NN	307				.22	NO			
			TB11-2C	37				.19	NO		42	
A 499	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 499A	2		SHLD A499					.25	NO			
			E53-B	309				.38	NO			
A 499W			J32-PP	307				.22	NO			
			TB11-2B	37				.19	NO		42	
A 501	3		J33-B	304				.22	NO			
			E54-B	305				.38	NO			
A 503	1		J33-B*	304				.22	NO			
			TB13-10B	266				.19	NO		42	
A 504	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 504A	2		SHLD A504					.25	NO			
			E54-B	305				.38	NO			
A 504L			J33-D*	304				.22	NO			
			TB11-5B	37				.19	NO		42	
A 504R			J33-C*	304				.22	NO			
			TB11-4B	37				.19	NO		42	
A 505	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 505A	2		SHLD A505					.25	NO			
			E54-B	305				.38	NO			
A 505L			J33-F*	304				.22	NO			
			K46-14	225				.31	YES			
A 505R			J33-E*	304				.22	NO			
			K46-17	225				.31	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519A	2		SHLD A519					.25	NO			
			E55-B	306				.38	NO			
A 519W			J33-NN	304				.22	NO			
			TB11-2E	37				.19	NO		42	
A 520	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 520A	2		SHLD A520					.25	NO			
			E55-B	306				.38	NO			
A 520W			J33-PP	304				.22	NO			
			TB11-2D	37				.19	NO		42	
A 521	3		J34-B	301				.22	NO			
			E62-B	292				.38	NO			
A 523	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 523A	2		SHLD A523					.25	NO			
			E56-B	302				.38	NO			
A 523L			J34-R	301				.22	NO			
			TB17-12B	261				.19	NO		42	
A 523R			J34-P	301				.22	NO			
			TB17-12E	261				.19	NO		42	
A 524	12				2.80	2.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 524A	2		SHLD A524					.25	NO			
			E56-B	302				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 524L			J34-V	301				.22	NO			
			TB17-9B	261				.19	NO		43	
A 524R			J34-U	301				.22	NO			
			TB17-10B	261				.19	NO		43	
A 525	2		J34-W	301				.22	NO			
			TB13-9C	266				.19	NO		43	
A 526	2		J34-X	301				.22	NO			
			J4-M	12				.22	NO			
A 528	3		J34-Z	301				.22	NO			
			K68-1	258				.31	YES		48	
A 529	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 529A	2		SHLD A529					.25	NO			
			E56-B	302				.38	NO			
A 529L			J34-B*	301				.22	NO			
			J39-R	291				.22	NO			
A 529R			J34-A*	301				.22	NO			
			J39-P	291				.22	NO			
A 530	11				3.30	3.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 530A	2		SHLD A530					.25	NO			
			E56-B	302				.38	NO			
A 530L			J34-D*	301				.22	NO			
			J39-T	291				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 530R			J34-C*	301				.22	NO			
			J39-S	291				.22	NO			
A 531	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 531A	2		SHLD A531					.25	NO			
			E56-B	302				.38	NO			
A 531L			J34-F*	301				.22	NO			
			J39-N	291				.22	NO			
A 531R			J34-E*	301				.22	NO			
			J39-M	291				.22	NO			
A 532	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 532A	2		SHLD A532					.25	NO			
			E56-B	302				.38	NO			
A 532L			J34-H*	301				.22	NO			
			TB6-5D	38				.19	NO		42	
A 532R			J34-G*	301				.22	NO			
			TB6-2D	38				.19	NO		43	
A 533	1		J34-I*	301				.22	NO			
			J39-U	291				.22	NO			
A 534	1		J34-J*	301				.22	NO			
			J39-V	291				.22	NO			
A 535	1		J34-K*	301				.22	NO			
			J39-W	291				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 536	1		J34-N*	301				.22	NO			
			K60-1	250				.31	YES		48	
A 537	1		J34-Q*	301				.22	NO			
			J39-Y	291				.22	NO			
A 538	1		J34-S*	301				.22	NO			
			J39-Z	291				.22	NO			
A 539	1		J34-T*	301				.22	NO			
			J39-B*	291				.22	NO			
A 540	1		J34-U*	301				.22	NO			
			J39-C*	291				.22	NO			
A 541	3		J34-W*	301				.22	NO			
			K64-1	254				.31	YES		48	
A 542	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 542A	2		SHLD A542					.25	NO			
			E94-B	303				.38	NO			
A 542W			J34-X*	301				.22	NO			
			J39-F*	291				.22	NO			
A 543	3		J34-Y*	301				.22	NO			
			J39-G*	291				.22	NO			
A 544	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 544A	2		SHLD A544					.25	NO			
			E94-B	303				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1146	12				2.50 2.30	2.20 2.00				2 1	90, 67, 59 50	
A 1146A	2		SHLD A1146 E68-B	 179				.25 .38	NO NO			
A 1146L			K19-10 K30-18	177 209				.31 .31	YES YES		49	
A 1146R			K19-13 K30-20	177 209				.31 .31	YES YES		49 49	
A 1147	12				2.50 2.30	2.20 2.00				2 1	90, 67, 59 50	
A 1147A	2		SHLD A1147 E68-B	 179				.25 .38	NO NO			
A 1147L			K19-4 K30-15	177 209				.31 .31	YES YES		49	
A 1147R			K19-7 K30-17	177 209				.31 .31	YES YES		49 49	
A 1148	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 1148A	2		SHLD A1148 E68-B	 179				.25 .38	NO NO			
A 1148L			K19-18 K30-10	177 209				.31 .31	YES YES		49	
A 1148R			K19-20 K30-13	177 209				.31 .31	YES YES		49 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1149	12				2.50 2.30	2.20 2.00				2 1	90, 67, 59 50	
A 1149A	2		SHLD A1149 E68-B	 179				.25 .38	NO NO			
A 1149L			K29-10 K30-9	208 209				.31 .31	YES YES		47 49	
A 1149R			K29-8 K30-12	208 209				.31 .31	YES YES		49	
A 1150	3		K20-6 T812-21	178 194				.31 .25	YES YES		47	
A 1151	3		K27-6 K28-6	206 207				.31 .31	YES YES		47	
A 1152	3		J7-C* XF20-1	20 131				.22 .31	NO YES			
A 1153	3		J43-N P2-B*	275 119				.22 .31	NO YES		92	
A 1154	3		J44-R P6-B*	274 114				.22 .31	NO YES		92	
A 1155	9				2.50 2.50	2.20 2.20				2 1	52, 63, 55 53	
A 1155A	2		SHLD A1155 E88-B	 270				.25 .38	NO NO			
A 1155W			T817-12C K8-8	261 39				.19 .31	NO YES		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 192 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1156	12				2.50 2.50	2.20 2.20				2 1	90, 67, 59 50	
A 1156A	2		SHLD A1156 E33-B	 28				.25 .38	NO NO			
A 1156L			J10-KK T817-12F	29 261				.22 .19	NO NO		43	
A 1156R			J10-JJ T817-11F	29 261				.22 .19	NO NO		43	
A 1157	12				2.50 2.50	2.20 2.20				2 1	90, 67, 59 50	
A 1157A	2		SHLD A1157 E62-B	 292				.25 .38	NO NO			
A 1157L			J34-N T817-12A	301 261				.22 .19	NO NO		43	
A 1157R			J34-L T817-11A	301 261				.22 .19	NO NO		43	
A 1158	3		K26-7 T86-11B	205 38				.31 .19	YES NO		47 43	
A 1159	3		K26-5 T86-16B	205 38				.31 .19	YES NO		47 43	
A 1160	3		K26-1 T812-8	205 186				.31 .25	YES YES		47	
A 1161	3		J1-X* K26-3	1 205				.22 .31	NO YES		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 193 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1162	3		J1-U T812-16	1 189A				.22 .25	NO YES			
A 1163	3		J1-V T812-15	1 189B				.22 .25	NO YES			
A 1164	3		K26-4 T812-16	205 189A				.31 .25	YES YES		47	
A 1165	3		K26-21 T812-15	205 189B				.31 .25	YES YES		47	
A 1166	3		J47-F K4-6	281 49				.22 .31	NO YES			
A 1167	3		J34-Y K8-1	301 39				.22 .31	NO YES			
A 1168	3		J47-C P2-C*	281 114				.22 .31	NO YES		92	
A 1169	3		J47-E P3-A	281 120				.22 .31	NO YES		92	
A 1170	3		J1-T J47-D	1 281				.22 .22	NO NO			
A 1171	3		J1-W J47-P	1 281				.22 .22	NO NO			
A 1172	3		J1-X J47-R	1 281				.22 .22	NO NO			
A 1173	3		J7-M* J40-F	20 290				.22 .28	NO YES		47	

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MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1174	3		J7-N*	20				.22	NO			
			J40-F*	290				.28	YES		47	
A 1175	3		J7-P*	20				.22	NO			
			J40-B*	290				.28	YES		47	
A 1176	3		J27-W	168				.22	NO			
			J40-A	290				.28	YES			
A 1177	3		J27-X	168				.22	NO			
			J46-A	267				.28	YES			
A 1178	3		J27-Y	168				.22	NO			
			J40-C	290				.28	YES			
A 1179	3		J27-Z	168				.22	NO			
			J46-C	267				.28	YES			
A 1180	3		J27-U*	168				.22	NO			
			J40-F	290				.28	YES			
A 1181	3		J27-V*	168				.22	NO			
			J40-A*	290				.28	YES			
A 1182	3		J27-W*	168				.22	NO			
			J46-F*	267				.28	YES			
A 1183	3		J27-X*	168				.22	NO			
			J40-F*	290				.28	YES			
A 1184	3		J30-H	314				.41	YES		58	
			J40-G	290				.28	YES			
A 1185	3		J30-F	314				.41	YES		58	
			J46-G	267				.28	YES			

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SCALE-NONE	REV LTR B	SHEET 195 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1186	3		J30-J	314				.41	YES		58	
			J40-B*	290				.28	YES			
A 1187	3		J7-L	20				.22	NO			
			TB5-8	57				.19	NO		39	
A 1188	3		J7-M	20				.22	NO			
			TB8-15	34				.19	NO		39	
A 1189	3		J30-L	20				.41	YES		58	
			TB7-14D	33				.19	NO		43	
A 1190	3		J30-M	20				.41	YES		58	
			TB13-3B	266				.19	NO		43	
A 1191	3		J47-J	281				.22	NO			
			TB6-6E	38				.19	NO		43	
A 1192	3		J10-A*	29				.22	NO			
			J47-G	281				.22	NO			
A 1193	3		J10-B*	29				.22	NO			
			TB16-5	262				.19	NO		39	
A 1194	3		J47-K	281				.22	NO			
			R2-1	317				.25	YES			
A 1195	3		J47-L	281				.22	NO			
			TB6-6F	38				.19	NO		43	
A 1196	16				2.30	2.00				2	90, 68, 60	
					2.50	2.20				1	50	
A 1196A	2		SHLD A1196					.25	NO			
			E48-B	167				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 196 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1196L			J27-T	168				.22	NO			
			J2-J	5				.22	NO			
A 1196R			J27-V	168				.22	NO			
			J2-G	5				.22	NO			
A 1196Y			J27-U	168				.22	NO			
			J2-H	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 197 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	2		TB1-17D J22-S4	11 83				.15 .20	NC NO		48 46	
A 110	2		TB2-42B J22-S5	65 83				.15 .20	NO NO		48 46	
A 111	2		TB2-43D J23-S6	65 82				.15 .20	NO NO		48 46	
A 112	2		TB2-42A J24-S6	65 81				.15 .20	NO NO		48 46	
A 113	2		TB2-42C J25-S2	65 80				.15 .20	NO NO		48 46	
A 114	2		TB2-43A J25-S6	65 80				.15 .20	NO NO		48 46	
A 115	2		TB2-43B J26-S2	65 79				.15 .20	NO NO		48 46	
A 116	6				3.25 2.25	3.00 2.00				A,4 B,7	55, 54, 63 63	
A 116A	1		SHLD A116 E24	165				.25 .25	NO NO			
A 116W			J3-A TB3-3D	35 148				.25 .15	NO NO		48	
A 117	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	
A 117A	1		SHLD A117 E30	195				.25 .25	NO NO			

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SCALE-NONE	REV LTR E	SHEET 35 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 117W			TB3-3D J25-B1	131 80				.15 .25	NO YES		49 47	
A 118	6				3.25 2.25	3.00 2.00				A,4 B,7	55, 54, 63 63	
A 118A	1		SHLD A118 E24	165				.25 .25	NO NO			
A 118W			J3-B TB3-3B	65 148				.25 .15	NO NO		48	
A 119	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	
A 119A	1		SHLD A119 E33	195				.25 .25	NO NO			
A 119W			TB3-3B J25-A1	131 80				.15 .25	NO YES		49 47	
A 120	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 120B	1		E12 SHLD A120	196				.25 .25	NO NO			
A 120L			J11-FF TB3-4C	114 148				.25 .15	NO NO		49	
A 120R			J11-EE TB3-3C	114 148				.25 .15	NO NO		49	
A 121	10				3.25 2.25	3.00 2.00				B,7 A,7	63 57, 56, 63	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 36 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121B	1		E12 SHLD A121	196				.25 .25	NO NO			
A 121L			J11-KK TB3-4D	114 148				.25 .15	NC NO		49	
A 121R			J11-JJ TB3-3A	114 148				.25 .15	NO NO		49	
A 122	2		TB3-4L J25-K2	131 80				.15 .20	NC NO		48 46	
A 123	2		TB3-16M TB3-4A	162 148				.25 .15	NO NO		50 48	
A 124	2		TB3-16Y TB3-4B	155 148				.25 .15	NC NO		50 48	
A 125	2		TB3-4A TB3-5D	131 130				.15 .15	NO NO		48 48	
A 126	10				3.25 2.25	3.00 2.00				E,7 A,4	63 57, 56, 63	
A 126B	1		E12 SHLD A126	196				.25 .25	NO NC			
A 126L			J11-LL TB3-6D	114 149				.25 .15	NO NO		49	
A 126R			J11-MM TB3-5D	114 149				.25 .15	NO NO		49	
A 127	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	

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SCALE-NONE	REV LTR E	SHEET 37 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 127B	1		E12 SHLD A127	196				.25 .25	NO NO			
A 127L			J11-GG TB3-6C	114 149				.25 .15	NO NO		49	
A 127R			J11-HH TB3-5B	114 149				.25 .15	NO NO		49	
A 128	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 128B	1		E12 SHLD A128	196				.25 .25	NO NO			
A 128L			J11-NN TB3-6B	114 149				.25 .15	NO NO		49	
A 128R			J11-PP TB3-5A	114 149				.25 .15	NO NO		49	
A 129	19											
A 129K			J3-V TB3-5A	65 130				.25 .15	NO NO		48	
A 129L			J3-U TB3-6C	65 130				.25 .15	NO NO		48	
A 129R			J3-C TB3-6B	65 130				.25 .15	NO NO		48	
A 129Y			J3-W TB3-6D	85 130				.25 .15	NO NO		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 38 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 142R			J3-K	a5			.25	NO			
			J21-B2	84			.20	NO			
A 143	5				2.25	2.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	
A 143A	1		SHLD A143				.25	NO			
			E16	176			.25	NO			
A 143W			J26-M3	79			.20	NO		46	
			J22-H6	83			.20	NO		46	
A 144	10				3.25	3.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 144A	1		SHLD A144				.25	NO			
			E27	189			.25	NO			
A 144L			J13-KK	91			.25	NO			
			J26-F5	79			.25	YES		47	
A 144R			J13-JJ	91			.25	NO			
			J26-E5	79			.25	YLS		47	
A 145	10				3.25	3.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 145A	1		SHLD A145				.25	NO			
			E27	189			.25	NO			
A 145L			J13-FF	91			.25	NO			
			TB1-49B	32			.15	NO		49	
A 145R			J13-EE	91			.25	NO			
			TB1-48C	32			.15	NO		49	

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SCALE-NONE	REV LTR E	SHEET 43 OF 173

MIL 3044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 146	10				2.25	2.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 146A	1		SHLD A146				.25	NO			
			E17	171			.25	NO			
A 146L			TB1-49B	31			.15	NO		49	
			J27-B2	78			.25	YES		47	
A 146R			TB1-48D	31			.15	NO		49	
			J27-A2	78			.25	YES		47	
A 147	13										
A 147L			TB1-49A	31			.15	NO		49	
			J26-D6	79			.25	YES		47	
A 147R			TB1-48A	31			.15	NO		49	
			J26-C6	79			.25	YES		47	
A 147Y			TB1-48C	31			.15	NO		49	
			J26-C5	79			.25	YLS		47	
A 148	10				2.25	2.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 148A	1		SHLD A148				.25	NO			
			E17	171			.25	NO			
A 148L			TB1-49A	32			.15	NO		49	
			TB1-4D	2			.15	NO		49	
A 148R			TB1-48A	32			.15	NO		49	
			TB1-4B	2			.15	NO		49	

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SCALE-NONE	REV LTR E	SHEET 44 OF 173

MIL 3044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149	10				3.25	3.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 149A	1		SHLD A149				.25	NO			
			E27	189			.25	NO			
A 149L			J13-HH	91			.25	NO			
			TB1-4C	2			.15	NO		49	
A 149R			J13-GG	91			.25	NO			
			TB1-4A	2			.15	NO		49	
A 150	8										
A 150L			TB1-4C	1			.15	NO		49	
			J21-E3	84			.20	NO		46	
A 150R			TB1-4A	1			.15	NO		49	
			J21-A3	84			.20	NO		46	
A 151	10				2.25	2.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 151A	1		SHLD A151				.25	NO			
			E22	170			.25	NO			
A 151L			J21-C3	84			.20	NO		46	
			J27-A1	78			.25	YES		47	
A 151R			J21-E3	84			.20	NO			
			J27-B1	78			.25	YES		47	
A 152	5				2.25	2.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	

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SCALE-NONE	REV LTR E	SHEET 45 OF 173

MIL 3044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 152A	1		SHLD A152				.25	NO			
			E16	176			.25	NO			
A 152W			J26-N3	79			.20	NO		46	
			J22-G6	83			.20	NO		46	
A 153	5				3.25	3.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	
A 153A	1		SHLD A153				.25	NO			
			E28	192			.25	NO			
A 153W			J14-R6	111			.25	NO			
			J26-F2	79			.25	YES		47	
A 154	5				3.25	3.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	
A 154A	1		SHLD A154				.25	NO			
			E28	192			.25	NO			
A 154W			J14-W6	111			.25	NO			
			J26-F4	79			.25	YES		47	
A 155	5				3.25	3.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	
A 155A	1		SHLD A155				.25	NO			
			E28	192			.25	NO			
A 155W			J14-S6	111			.25	NO			
			J26-F6	79			.25	YES		47	
A 156	5				3.25	3.00			A,4	53, 52, 63	
					2.25	2.00			B,7	63	

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SCALE-NONE	REV LTR E	SHEET 46 OF 173

MIL 3044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156A	1		SHLD A156 E28	 1v2				.25 .25	NO NO			
A 156W			J14-T• J26-C7	111 79				.25 .25	NO YES		47	
A 157	15				3.25 7.00	3.00 6.75				B,7 A,4	63 59, 65, 63	
A 157B	1		E16 SHLD A157	176				.25 .25	NO NO			
A 157L			J11-K• TB1-51A	114 34				.25 .15	NO NO		A 87, 49	
A 157R			J11-J• J26-K1	114 79			3.00	.25 .20	NO NO		46	
A 157Y			J11-H• J26-P1	114 79			3.00	.25 .20	NO NO		46	
A 158	15				3.25 7.00	3.00 6.75				B,7 A,4	63 59, 65, 63	
A 158B	1		E16 SHLD A158	176				.25 .25	NO NO			
A 158L			J12-JJ TB1-51B	113 34				.25 .15	NO NO		A 87, 49	
A 158R			J12-HH J26-R3	113 79			3.00	.25 .20	NO NO		46	
A 158Y			J12-KK J26-P3	113 79			3.00	.25 .20	NO NC		46	

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MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 159	15				3.25 7.00	3.00 6.75				B,7 A,4	63 59, 65, 63	
A 159B	1		E16 SHLD A159	176				.25 .25	NO NO			
A 159L			J12-MM TB1-51B	113 33				.25 .15	NO NO		A 87, 49	
A 159R			J12-LL J26-N1	113 79			3.00	.25 .20	NO NO		46	
A 159Y			J12-NN J26-N2	113 79			3.00	.25 .20	NO NO		46	
A 160	2		TB1-51D J26-R2	33 79				.15 .20	NO NO		48 46	
A 161	2		TB1-51C TB3-18Z	34 155				.15 .25	NO NO		48 50	
A 162	2		TB1-51C TB3-18Z	33 155				.15 .25	NO NO		48 50	
A 163	2		TB1-51A J26-P2	33 79				.15 .20	NO NO		48 46	
A 164	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 164A	1		SHLD A164 E24	 165				.25 .25	NO NO			
A 164L			J3-F J26-A9	85 79				.25 .25	NO YES		47	

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MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 164R			J3-G J26-A8	85 79				.25 .25	NO YES		47	
A 165	15				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 65, 63	
A 165B	1		E16 SHLD A165	176				.25 .25	NO NO			
A 165L			J11-K J26-A9	114 79				.25 .25	NO YES			
A 165R			J11-J J26-A8	114 79				.25 .25	NO YES			
A 165Y			J11-H J26-B9	114 79				.25 .25	NO YES		47	
A 166	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 166A	1		SHLD A166 E24	 165				.25 .25	NO NO			
A 166L			J3-E J26-C8	85 79				.25 .25	NO YES		47	
A 166R			J3-D J26-B8	85 79				.25 .25	NO YES		47	
A 167	15				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 65, 63	
A 167B	1		E16 SHLD A167	176				.25 .25	NO NO			

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MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 167L			J11-Z• J26-C8	114 79				.25 .25	NO YES			
A 167R			J11-Y• J26-B8	114 79				.25 .25	NO YES			
A 167Y			J11-X• J26-C9	114 79				.25 .25	NO YES		47	
A 168	10				3.25 2.25	3.00 2.00				A,4 E,7	57, 56, 63 63	
A 168A	1		SHLD A168 E23	 166				.25 .25	NO NO			
A 168L			J1-F J26-D9	86 79				.25 .25	NO YES		47	
A 168R			J1-E J26-D8	86 79				.25 .25	NO YES		47	
A 169	10				2.25 3.25	2.00 3.00				A,4 E,7	57, 56, 63 63	
A 169A	1		SHLD A169 E16	 176				.25 .25	NC NO			
A 169L			J26-F9 J11-CC	79 114				.25 .25	YES NC		47	
A 169R			J26-D9 J11-CD	79 114				.25 .25	YES NO			
A 170	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	

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MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170A	1		SHLD A170 E23	 166				.25 .25	NO NO			
A 170L			J1-W J26-G1	86 79				.25 .20	NO NO		46	
A 170R			J1-X J26-H1	86 79				.25 .20	NO NO		46	
A 171	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 171A	1		SHLD A171 E16	 176				.25 .25	NO NO			
A 171L			J26-G2 J11-S*	79 114				.20 .25	NO NO		46	
A 171R			J26-G1 J11-R*	79 114				.20 .25	NO NO			
A 172	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 172A	1		SHLD A172 E23	 166				.25 .25	NO NO			
A 172L			J1-G J26-G3	86 79				.25 .20	NO NO		46	
A 172R			J1-H J26-H3	86 79				.25 .20	NO NO		46	
A 173	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 173A	1		SHLD A173 E16	 176				.25 .25	NO NO			
A 173L			J25-G4 J11-T*	79 114				.20 .25	NO NO		46	
A 173R			J26-G3 J11-S*	79 114				.20 .25	NO NO			
A 174	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 174A	1		SHLD A174 E23	 166				.25 .25	NO NO			
A 174L			J1-C J26-F7	86 79				.25 .25	NO YES		47	
A 174R			J1-D J26-D7	86 79				.25 .25	NO YES		47	
A 175	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 175A	1		SHLD A175 E17	 171				.25 .25	NO NO			
A 175L			J25-F8 J11-B8	79 114				.25 .25	YES NO		47	
A 175R			J26-F7 J11-AA	79 114				.25 .25	YES NO			
A 176	1		J14-LL J26-A7	111 79				.25 .25	NO YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 177	1		J14-DD J26-M1	111 79				.25 .20	NO NO		46	
A 178	1		J14-M J26-S1	111 79				.25 .20	NO NO		46	
A 179	1		J14-N J26-T1	111 79				.25 .20	NO NO		46	
A 180	1		J14-P J26-T2	111 79				.25 .20	NO NO		46	
A 181	13											
A 181L			J26-L3 TB1-52C	79 33				.20 .15	NC NO		46 49	
A 181R			J26-L4 TB1-52A	79 33				.20 .15	NO NC		46 49	
A 181Y			J26-M4 TB1-52B	79 33				.20 .15	NC NO		46 49	
A 182	7				2.25 2.25	2.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 182A	1		SHLD A182 TB1-52C	 33				.25 .15	NO NO		49	
A 182B	1		TB1-18A SHLD A182	12				.15 .25	NO NO		49	
A 182E			TB1-52A TB1-19A	33 12				.15 .15	NC NO		49 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 183	7				2.25 2.25	2.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 183A	1		SHLD A183 TB1-52D	 33				.25 .15	NO NO		49	
A 183B	1		TB1-18D SHLD A183	12				.15 .25	NO NO		49	
A 183E			TB1-52B TB1-19C	33 12				.15 .15	NO NO		49 49	
A 184	7				2.25 .52	2.00 .25				A,5 B,10	53, 52, 63 41, 42, 63	
A 184A	1		SHLD A184 TB1-18B	 12				.25 .15	NO NO		49	
A 184E			TB1-19B J7-B1	12 95				.15 .15	NO NO		49 40	
A 184X			SHLD A184 J7-B2	 95								
A 185	7				2.25 .52	2.00 .25				A,5 B,10	53, 52, 63 41, 42, 63	
A 185A	1		SHLD A185 TB1-18B	 11				.25 .15	NO NO		49	
A 185E			TB1-19D J7-A1	11 95				.15 .15	NO NO		49 40	
A 185X			SHLD A185 J7-A2	 95								

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 186	13											
A 186L			TB1-16A J22-F1	11 83				.15 .20	NO NO		49 46	
A 186R			TB1-19A J22-G1	11 83				.15 .20	NO NO		49 46	
A 186Y			TB1-19C J22-L2	11 83				.15 .20	NO NO		49 46	
A 187	11				3.25 4.50	3.00 4.25				B,7 A,4	63 59, 58, 63	
A 187B	1		E17 SHLD A187	171				.25 .25	NO NO			
A 187L			J17-Q* TB2-1A	109 37				.25 .15	NO NO		A 87, 48	
A 187R			J17-P* TB1-53A	109 35				.25 .15	NO NO		A 87, 48	
A 188	10				3.25 4.50	3.00 4.25				E,7 A,4	63 57, 56, 63	
A 188B	1		E17 SHLD A188	171				.25 .25	NO NO			
A 188L			J16-NN TB2-1B	112 38				.25 .15	NO NO		A 87, 49	
A 188R			J16-MM TB1-53B	112 36				.25 .15	NO NO		A 87, 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 189	10				3.25 4.50	3.00 4.25				B,7 A,4	63 57, 56, 63	
A 189B	1		E17 SHLD A189	171				.25 .25	NO NO			
A 189L			J18-E TB2-1C	96 38				.25 .15	NO NO		A 87, 49	
A 189R			J18-D TB1-53C	96 36				.25 .15	NO NO		A 87, 49	
A 190	10				3.25 4.50	3.00 4.25				B,7 A,4	63 57, 56, 63	
A 190B	1		E17 SHLD A190	171				.25 .25	NO NO			
A 190L			J19-E TB2-1A	106 38				.25 .15	NO NO		A 87, 49	
A 190R			J19-D TB1-53A	136 36				.25 .15	NO NO		A 87, 49	
A 191	11				3.25 4.50	3.00 4.25				B,7 A,4	63 59, 58, 63	
A 191B	1		E17 SHLD A191	171				.25 .25	NO NO			
A 191L			J31-I* TB2-1B	89 37				.25 .15	NO NO		A 87, 48	
A 191R			J31-H* TB1-53B	89 35				.25 .15	NO NO		A 87, 48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 192	11				3.25 4.50	3.00 4.25				B,7 A,4	63 59, 58, 63	
A 192B	1		E17 SHLD A192	171				.25 .25	NO NO			
A 192L			J32-P* TB2-1C	90 37				.25 .15	NO NO		A 87, 48	
A 192R			J32-N* TB1-53C	90 35				.25 .15	NO NO		A 87, 48	
A 193	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 193E	1		E18 SHLD A193	175				.25 .25	NO NO			
A 193L			J28-S1 TB1-55C	77 35				.20 .15	NO NO		46 49	
A 193R			J28-T1 TB1-54C	77 35				.20 .15	NO NO		46 49	
A 194	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 194B	1		E18 SHLD A194	175				.25 .25	NO NO			
A 194L			J29-S6 TB1-55B	76 36				.20 .15	NO NO		46 49	
A 194R			J29-T6 TB1-54B	76 36				.20 .15	NO NO		46 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 195B	1		E18 SHLD A195	175				.25 .25	NO NO			
A 195L			J30-G5 TB1-55B	75 36				.20 .15	NO NO		46 49	
A 195R			J30-G6 TB1-54B	75 36				.20 .15	NO NO		46 49	
A 196	2		TB1-53D TB1-54D	36 36				.15 .15	NO NO		48 48	
A 197	2		TB1-55D TB2-1D	36 38				.15 .15	NO NO		48 48	
A 198	9											
A 198L			TB1-55D J26-N5	35 79				.15 .20	NO NO		48 46	
A 198R			TB1-53D J26-P5	35 79				.15 .20	NO NO		48 46	
A 199	8											
A 199L			TB2-1D J26-N5	37 79				.15 .20	NO NO		49	
A 199R			TB1-54D J26-P5	35 79				.15 .20	NO NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 200	1		J30-G5 J30-G4	75 75				.20 .20	NO NO		46	
A 201	5				2.25 3.25	2.00 3.00				A,4 B,7	53, 52, 63 63	
A 201A	1		SHLD A201 E18	 175				.25 .25	NO NO			
A 201W			J26-K4 J12-K*	79 113				.20 .25	NO NO		46	
A 202	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 202B	1		E18 SHLD A202	175				.25 .25	NO NO			
A 202L			J16-GG TB2-3A	112 37				.25 .15	NO NO		49	
A 202R			J16-FF TB2-2A	112 37				.25 .15	NC NO		49	
A 203	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 203B	1		E18 SHLD A203	175				.25 .25	NO NO			
A 203L			J19-G TB2-3B	96 37				.25 .15	NO NO		48	
A 203R			J18-F TB2-2B	96 37				.25 .15	NO NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 204	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 204B	1		E18 SHLD A204	175				.25 .25	NO NO			
A 204L			J19-G TB2-3C	106 38				.25 .15	NO NO		48	
A 204R			J19-F TB2-2C	106 38				.25 .15	NO NO		48	
A 205	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 205B	1		E18 SHLD A205	175				.25 .25	NO NO			
A 205L			J30-H5 TB2-3D	75 37				.20 .15	NO NO		46 49	
A 205R			J30-H6 TB2-2D	75 37				.20 .15	NO NO		46 49	
A 206	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 206B	1		E18 SHLD A206	175				.25 .25	NO NO			
A 206L			J31-K* TB2-3A	89 38				.25 .15	NO NO		48	
A 206R			J31-J* TB2-2A	89 38				.25 .15	NO NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 207B	1		E18 SHLD A207	175				.25 .25	NO NO			
A 207L			J32-R* TB2-3B	90 36				.25 .15	NO NO		48	
A 207R			J32-Q* TB2-2B	90 38				.25 .15	NO NO		48	
A 208	9											
A 208L			TB2-3C J26-N6	37 79				.15 .20	NO NO		48 46	
A 208R			TB2-2C J26-P6	37 79				.15 .20	NO NO		48 46	
A 209	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 209B	1		E15 SHLD A209	177				.25 .25	NO NO			
A 209L			J11-N J27-B4	114 78				.25 .25	NO YES		47	
A 209R			J11-M J27-A4	114 78				.25 .25	NO YES		47	
A 210	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	

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MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 210B	1		E15 SHLD A210	177				.25 .25	NO NO			
A 210L			J11-R J27-C4	114 78				.25 .25	NO YES		47	
A 210R			J11-P J27-C4	114 78				.25 .25	NO YES		47	
A 211	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 211B	1		E15 SHLD A211	177				.25 .25	NO NO			
A 211L			J11-X J27-B3	114 78				.25 .25	NO YES		47	
A 211R			J11-W J27-A3	114 78				.25 .25	NO YES		47	
A 212	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 212B	1		E15 SHLD A212	177				.25 .25	NC NC			
A 212L			J11-T J27-C1	114 78				.25 .25	NO YES		47	
A 212R			J11-S J27-D1	114 78				.25 .25	NO YES		47	
A 213	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 213A	1		SHLD A213					.25	NO			
			E23	166				.25	NO			
A 213L			J3-P	85				.25	NO			
			J27-C1	78				.25	YES			
A 213R			J3-R	85				.25	NO			
			J27-C2	78				.25	YES		47	
A 214	10				3.25	3.00				E,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 214B	1		E15	177				.25	NO			
			SHLD A214					.25	NO			
A 214L			J11-V	114				.25	NO			
			J27-D3	78				.25	YES		47	
A 214R			J11-U	114				.25	NO			
			J27-C3	78				.25	YES		47	
A 215	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				E,7	63	
A 215A	1		SHLD A215					.25	NO			
			E23	166				.25	NO			
A 215L			J3-M	85				.25	NO			
			J27-D3	78				.25	YES			
A 215R			J3-N	85				.25	NO			
			J27-D2	78				.25	YES		47	
A 216	1		J17-P	109				.25	NO			
			J28-R1	77				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J28-R1	77				.20	NO			
			J29-R6	76				.20	NO		46	
A 218	1		J17-S*	109				.25	NO			
			J28-R2	77				.20	NO		46	
A 219	1		J17-BB	109				.25	NO			
			J26-T3	77				.20	NO		46	
A 220	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 220A	1		SHLD A220					.25	NO			
			J31-S	89				.25	NO			
A 220B	1		J29-B1	76				.25	YES		47	
			SHLD A220					.25	NO			
A 220E			J31-R	89				.25	NO			
			J29-A1	76				.25	YES		47	
A 221	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 221A	1		SHLD A221					.25	NO			
			J31-P	89				.25	NO			
A 221B	1		J29-C1	76				.25	YES		47	
			SHLD A221					.25	NO			
A 221L			J31-M	89				.25	NO			
			J29-C2	76				.25	YES		47	
A 221R			J31-L	89				.25	NO			
			J29-C1	76				.25	YES			

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MIL 2066 A 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 222	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 222A	1		SHLD A222					.25	NO			
			TB3-16A	154				.16	NO		49	
A 222L			J19-N	106				.25	NO			
			J29-C6	76				.25	YES		47	
A 222R			J19-M	106				.25	NO			
			J29-C5	76				.25	YES		47	
A 223	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 223A	1		SHLD A223					.25	NO			
			J19-Z	106				.25	NO			
A 223B	1		J29-H1	76				.20	NO		46	
			SHLD A223					.25	NO			
A 223E			J19-Y	106				.25	NO			
			J29-G1	76				.20	NO		46	
A 224	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 224A	1		SHLD A224					.25	NO			
			TB3-16C	154				.16	NO		49	
A 224L			J19-X	106				.25	NO			
			J29-K2	76				.20	NO		46	
A 224R			J19-W	106				.25	NO			
			J29-K1	76				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 225	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 225B	1		E8	180				.25	NO			
			SHLD A225					.25	NO			
A 225L			J19-V	106				.25	NO			
			J29-P1	76				.20	NO		46	
A 225R			J19-U	106				.25	NO			
			J29-P2	76				.20	NO		46	
A 226	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 226A	1		SHLD A226					.25	NO			
			J19-EE	106				.25	NO			
A 226B	1		J29-B4	76				.25	YES		47	
			SHLD A226					.25	NO			
A 226L			J19-R*	106				.25	NO			
			J29-B4	76				.25	YES			
A 226R			J19-S*	106				.25	NO			
			J29-B5	76				.25	YES		47	
A 227	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 227A	1		SHLD A227					.25	NO			
			J19-X*	106				.25	NO			
A 227B	1		J29-B6	76				.25	YES		47	
			SHLD A227					.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 227E			J19-W* J29-A6	196 76				.25 .25	NO YES		47	
A 228	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 228A	1		SHLD A228 E12	196				.25 .25	NO NC			
A 228L			J17-W J29-F8	109 76				.25 .25	NO YES		47	
A 228R			J17-V J29-F9	109 76				.25 .25	NO YES		47	
A 229	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 229A	1		SHLD A229 E30	195				.25 .25	NO NO			
A 229L			J19-A* J29-C9	96 76				.25 .25	NO YES		47	
A 229R			J18-B* J29-C8	96 76				.25 .25	NO YES		47	
A 230	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 230A	1		SHLD A230 E30	195				.25 .25	NO NO			
A 230L			J13-M J29-K5	96 76				.25 .20	NO NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 230R			J18-N J29-K4	96 76				.25 .20	NO NO		46	
A 231	8											
A 231L			J29-H5 J30-C8	76 75				.20 .25	NO YES		46 47	
A 231R			J29-K5 J30-C8	76 75				.20 .25	NO YES		47	
A 232	15				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 65, 63	
A 232B	1		E8 SHLD A232	180				.25 .25	NO NO			
A 232L			J18-S J29-P4	96 76				.25 .20	NO NO		46	
A 232R			J18-U J29-P3	96 76				.25 .20	NO NO		46	
A 232Y			J18-T J29-P5	96 76				.25 .20	NO NO		46	
A 233	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 233A	1		SHLD A233 E30	195				.25 .25	NO NO			
A 233L			J18-P J29-G4	96 76				.25 .20	NO NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233R			J18-R J29-G3	96 76				.25 .20	NO NO		46	
A 234	8											
A 234L			J29-H4 J30-C9	76 75				.20 .25	NO YES		46 47	
A 234R			J29-G4 J30-D9	76 75				.20 .25	NO YES		47	
A 235	10				3.25 2.25	3.00 2.00				A,5 A,5	57, 56, 63 57, 56, 63	
A 235A	1		SHLD A235 J18-B6	96				.25 .25	NO NC			
A 235B	1		J29-B7 SHLD A235	76				.25 .25	YES NO		47	
A 235L			J13-M* J29-B8	96 76				.25 .25	NO YES		47	
A 235R			J13-K* J29-B7	96 76				.25 .25	NO YES			
A 236	7				3.25 2.25	3.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 236A	1		SHLD A236 J18-X*	96				.25 .25	NO NO			
A 236B	1		J29-B9 SHLD A236	76				.25 .25	YES NO		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 236E			J18-W* J29-A9	96 76				.25 .25	NO YES		47	
A 237	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 237A	1		SHLD A237 E12	196				.25 .25	NO NO			
A 237L			J17-C* J29-D7	109 76				.25 .25	NO YES		47	
A 237R			J17-B* J29-D8	109 76				.25 .25	NO YES		47	
A 238	1		J17-U* J29-P6	109 76				.25 .20	NO NO		46	
A 239	1		J29-M1 TB2-32A	76 57				.20 .15	NO NO		46 49	
A 240	1		J29-M2 TB2-32B	76 58				.20 .15	NO NO		46 49	
A 241	1		J29-M3 TB2-32C	76 58				.20 .15	NO NO		46 49	
A 242	1		J29-M4 TB2-34A	76 59				.20 .15	NO NO		46 49	
A 243	1		J29-M5 TB2-34B	76 59				.20 .15	NO NO		46 49	
A 244	1		J29-M6 TB2-34C	76 59				.20 .15	NO NO		46 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 245	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 245B	1		E8 SHLD A245	160				.25 NO .25 NO				
A 245L			J16-F* TB2-33A	112 56				.25 NO .15 NO			49	
A 245R			J16-E* TB2-32A	112 56				.25 NO .15 NO			49	
A 246	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 246B	1		E8 SHLD A246	160				.25 NO .25 NO				
A 246L			J16-G* TB2-33A	112 57				.25 NO .15 NO			49	
A 246R			J16-P* TB2-32B	112 57				.25 NO .15 NO			49	
A 247	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 247B	1		E8 SHLD A247	160				.25 NO .25 NO				
A 247L			J16-H TB2-33B	112 57				.25 NO .15 NO			49	
A 247R			J16-G TB2-32C	112 57				.25 NO .15 NO			49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 248	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 248B	1		E8 SHLD A248	160				.25 NO .25 NO				
A 248L			J16-B* TB2-33B	112 60				.25 NO .15 NO			49	
A 248R			J16-A* TB2-34A	112 60				.25 NO .15 NO			49	
A 249	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 249B	1		E8 SHLD A249	160				.25 NO .25 NO				
A 249L			J16-S* TB2-33C	112 60				.25 NO .15 NO			49	
A 249R			J16-R* TB2-34B	112 60				.25 NO .15 NO			49	
A 250	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 250B	1		E8 SHLD A250	160				.25 NO .25 NO				
A 250L			J16-N* TB2-33D	112 60				.25 NO .15 NO			49	
A 250R			J16-M* TB2-34C	112 60				.25 NO .15 NO			49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251	8											
A 251L			J12-H* J30-B4	113 75				.25 NO .25 YES			47	
A 251R			J12-G* J30-A4	113 75				.25 NO .25 YES			47	
A 252	8											
A 252L			J30-B4 J2-E*	75 87				.25 YES .25 NO				
A 252R			J30-A4 J2-D*	75 87				.25 YES .25 NO				
A 253	8											
A 253L			J30-B6 J2-C*	75 87				.25 YES .25 NO			47	
A 253R			J30-A6 J2-B*	75 87				.25 YES .25 NO			47	
A 254	7				3.25 2.25	3.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 254A	1		SHLD A254 J32-LL	90				.25 NO .25 NO				
A 254B	1		J30-B9 SHLD A254	75				.25 YES .25 NO			47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 254E			J32-KK J30-A9	90 75				.25 NO .25 YES			47	
A 255	10				3.25 2.25	3.00 2.00				E,7 A,4	63 57, 56, 63	
A 255B	1		E7 SHLD A255	161				.25 NO .25 NO				
A 255L			J16-P J30-B7	112 75				.25 NO .25 YES			47	
A 255R			J16-N J30-B8	112 75				.25 NO .25 YES			47	
A 256	10				3.25 2.25	3.00 2.00				A,4 E,7	57, 56, 63 63	
A 256A	1		SHLD A256 E25	168				.25 NO .25 NO				
A 256L			J31-S* J30-C7	69 75				.25 NO .25 YES			47	
A 256R			J31-R* J30-C6	69 75				.25 NO .25 YES			47	
A 257	8											
A 257L			J17-K* J30-F7	109 75				.25 NO .25 YES			47	
A 257R			J17-J* J30-F6	109 75				.25 NO .25 YES			47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 258	8											
A 258L			J12-GG J30-F1	113 75				.25 .25	NO YES		47	
A 258R			J12-FF J30-D1	113 75				.25 .25	NO YES		47	
A 259	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 259A	1		SHLD A259 E25	106				.25 .25	NO NO			
A 259L			J31-X* J30-D7	69 75				.25 .25	NO YES		47	
A 259R			J31-W* J30-D6	69 75				.25 .25	NO YES		47	
A 260	1		J17-MM J30-F2	109 75				.25 .25	NO YES		47	
A 261	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 261B	1		TB1-22D SHLD A261	14				.15 .25	NO NO		49	
A 261E			J8-A1 TB1-22B	94 14				.15 .15	NO NO		40 49	
A 261X			J8-A2 SHLD A261	94								

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 262	6											
A 262L			TB1-22C J22-H1	13 63				.15 .20	NO NO		49 46	
A 262R			TB1-22A J22-K1	13 63				.15 .20	NO NO		49 46	
A 263	7				2.25 2.25	2.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 263A	1		SHLD A263 TB1-22C	14				.25 .15	NO NO		49	
A 263B	1		J30-D3 SHLD A263	75				.25 .25	YES NO		47	
A 263E			TB1-22A J30-F3	14 75				.15 .25	NO YES		49 47	
A 264	8											
A 264L			J12-J J30-G1	113 75				.25 .20	NO NO		46	
A 264R			J12-H J30-G2	113 75				.25 .20	NO NO		46	
A 265	1		J30-K6 J30-L6	75 75				.20 .20	NO NO		46 46	
A 266	1		J30-K5 J30-L5	75 75				.20 .20	NO NO		46 46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 267	9											
A 267L			J30-K5 TB2-44D	75 65				.20 .15	NO NO		48	
A 267R			J30-L6 TB2-44B	75 65				.20 .15	NO NO		48	
A 268	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 268A	1		SHLD A268 E7	161				.25 .25	NO NO			
A 268L			TB2-44C J22-K4	65 63				.15 .20	NO NO		49 46	
A 268R			TB2-44A J22-H4	65 63				.15 .20	NO NO		49 46	
A 269	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 269A	1		SHLD A269 E28	192				.25 .25	NO NO			
A 269L			J15-N J30-M3	110 75				.25 .20	YES NO		66 46	
A 269R			J15-M J30-N3	110 75				.25 .20	YES NO		66 46	
A 270	2		J30-M6 J22-G4	75 63				.20 .20	NO NO		46 46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 271	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 271A	1		SHLD A271 E7	161				.25 .25	NO NO			
A 271L			TB2-44C J14-N*	66 111				.15 .25	NO NO		49	
A 271R			TB2-44A J14-M*	66 111				.15 .25	NO NO		49	
A 272	11				2.25 3.25	2.00 3.00				A,4 B,7	59, 58, 63 63	
A 272A	1		SHLD A272 E7	161				.25 .25	NO NO			
A 272L			TB2-44D J12-N	66 113				.15 .25	NO NO		48	
A 272R			TB2-44B J12-M	66 113				.15 .25	NO NO		48	
A 273	6				3.25 2.25	3.00 2.00				A,4 B,7	55, 54, 63 63	
A 273A	1		SHLD A273 E12	196				.25 .25	NO NO			
A 273E			J17-Z J30-H4	109 75				.25 .20	NO NO		46	
A 274	2		J17-AA TB2-45A	109 68				.25 .15	NO NO		48	

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SCALE-NONE	REV LTR E	SHEET 78 OF 173

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 275	2		TB2-45A	67			.15	NO		48	
			J30-N4	75			.20	NO		46	
A 276	1		TB2-45B	67			.15	NO		49	
			J31-CC	89			.25	NO			
A 277	8										
A 277L			TB2-45C	68			.15	NO		49	
			J32-X*	90			.25	NO			
A 277R			TB2-45B	68			.15	NO		49	
			J32-W*	90			.25	NO			
A 278	2		TB3-17A	124			.25	NO		50	
			TB2-45C	67			.15	NO		48	
A 279	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	
A 279A	1		SHLD A279				.25	NO			
			E23	166			.25	NO			
A 279L			J1-F*	86			.25	NO			
			J11-E*	114			.25	NO			
A 279R			J1-G*	86			.25	NO			
			J11-D*	114			.25	NO			
A 280	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	
A 280A	1		SHLD A280				.25	NO			
			E23	166			.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 79 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 280L			J1-N	86			.25	NO			
			J11-R*	114			.25	NO			
A 280R			J1-P	86			.25	NO			
			J11-C*	114			.25	NO			
A 281	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	
A 281A	1		SHLD A281				.25	NO			
			E23	166			.25	NO			
A 281L			J1-B*	86			.25	NO			
			J11-C*	114			.25	NO			
A 281R			J1-A*	86			.25	NO			
			J11-B*	114			.25	NO			
A 282	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	
A 282A	1		SHLD A282				.25	NO			
			E23	166			.25	NO			
A 282L			J1-M	86			.25	NO			
			J11-P*	114			.25	NO			
A 282R			J1-L	86			.25	NO			
			J11-N*	114			.25	NO			
A 283	12										
A 283K			J3-F*	65			.25	NO			
			E37	91A			.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 80 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 283L			J3-G*	65			.25	NO			
			E36	91B			.25	NO			
A 283R			J3-D*	65			.25	NO			
			E36	91B			.25	NO			
A 283Y			J3-E*	65			.25	NO			
			E37	91A			.25	NO			
A 284	12										
A 284K			J3-C*	65			.25	NO			
			E34	91C			.25	NO			
A 284L			J3-B*	65			.25	NO			
			E35	110B			.25	NO			
A 284R			J3-A*	65			.25	NO			
			E35	110B			.25	NO			
A 284Y			J3-Z	65			.25	NO			
			E34	91C			.25	NO			
A 285	9										
A 285L			J3-X	65			.25	NO			
			E33	110A			.25	NO			
A 285R			J3-Y	65			.25	NO			
			E32	91D			.25	NO			
A 286	9										

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 81 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 286L			J2-J	87			.25	NO			
			E33	110A			.25	NO			
A 286R			J2-H	87			.25	NO			
			E32	91D			.25	NO			
A 287	2		J13-C	91			.25	NO			
			J5-M.	92			.25	NO			
A 288	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	
A 288A	1		SHLD A288				.25	NO			
			E7	161			.25	NO			
A 288L			J2-P	87			.25	NO			
			J5-E	92			.25	NO			
A 288R			J2-N	87			.25	NO			
			J5-D	92			.25	NO			
A 289	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	
A 289A	1		SHLD A289				.25	NO			
			E25	188			.25	NO			
A 289L			J32-N	90			.25	NO			
			J18-G*	96			.25	NO			
A 289R			J32-M	90			.25	NO			
			J18-H*	96			.25	NO			
A 290	10				3.25	3.00			A,4	57, 56, 63	
					3.25	3.00			B,7	63	

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SCALE - NONE	REV LTR E	SHEET 82 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 290A	1		SHLD A290 E25	 188				.25 NO .25 NO				
A 290L			J32-T J18-C*	90 96				.25 NO .25 NO				
A 290R			J32-S J18-D*	90 96				.25 NO .25 NO				
A 291	10				3.25 3.25	3.00 3.00				A,4 B,7	57, 56, 63 63	
A 291A	1		SHLD A291 E25	 188				.25 NO .25 NO				
A 291L			J32-H* J17-M*	90 106				.25 NO .25 NO				
A 291R			J32-G* J19-N*	90 106				.25 NO .25 NO				
A 292	7				.52 .52	.25 .25				B,10 B,10	41, 42, 63 41, 42, 63	
A 292E			J6-J1 J6-G1	108 108				.15 NO .15 NO			40 40	
A 292X			J6-J2 J6-G2	108 108								
A 293	4		J20-L J20-M	93 93				.25 YES .25 YES			66 66	
A 294	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	

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SCALE-NONE	REV LTR E	SHEET 83 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 294A	1		SHLD A294 E7	 161				.25 NO .25 NO				
A 294L			J4-C* J24-A2	88 81				.25 NO .20 NO			46	
A 294R			J4-B* J24-A1	88 81				.25 NO .20 NO			46	
A 295	17				3.25 2.25	3.00 2.00				B,7 C,6A	63 64, 63	
A 295E	1		E19 SHLD A295	172				.25 NO .25 NO				
A 295L			J4-L J24-P3	88 81				.25 NO .20 NO			46	
A 295R			J4-K J24-P1	88 81				.25 NO .20 NO			46	
A 295Y			J4-M J24-P2	88 81				.25 NO .20 NO			46	
A 296	2		J4-E* T63-1B	88 139				.25 NO .25 NO			50	
A 297	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 297B	1		TB1-33C SHLD A297	22				.15 NO .25 NO			49	
A 297E			J9-J1 TB1-33A	107 22				.15 NO .15 NO			40 49	

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SCALE-NONE	REV LTR E	SHEET 84 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 297X			J9-J2 SHLD A297	107								
A 298	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 298B	1		TB1-33D SHLD A298	22				.15 NO .25 NO			49	
A 298E			J9-G1 TB1-33B	107 22				.15 NO .15 NO			40 49	
A 298X			J9-G2 SHLD A298	107								
A 299	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 299B	1		TB1-34C SHLD A299	22				.15 NO .25 NO			49	
A 299E			J9-H1 TB1-34A	107 22				.15 NO .15 NO			40 49	
A 299X			J9-H2 SHLD A299	107								
A 300	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 300B	1		TB1-34D SHLD A300	22				.15 NO .25 NO			49	
A 300E			J9-K1 TB1-34B	107 22				.15 NO .15 NO			40 49	

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SCALE-NONE	REV LTR E	SHEET 85 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 300X			J9-K2 SHLD A300	107								
A 301	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 301B	1		TB1-35C SHLD A301	24				.15 NO .25 NO			49	
A 301E			J10-B1 TB1-35A	97 24				.15 NO .15 NO			40 49	
A 301X			J10-B2 SHLD A301	97								
A 302	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 302B	1		TB1-35D SHLD A302	24				.15 NO .25 NO			49	
A 302E			J10-A1 TB1-35B	97 24				.15 NO .15 NO			40 49	
A 302X			J10-A2 SHLD A302	97								
A 303	1		TB1-33C TB1-34C	21 21				.15 NO .15 NO			49 49	
A 304	1		TB1-34D TB1-35C	21 23				.15 NO .15 NO			49 49	
A 305	8											

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SCALE-NONE	REV LTR E	SHEET 86 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 305L			TB1-33B J24-D2	21 81				.15 .20	NO NO		49 46	
A 305R			TB1-33A J24-D1	21 81				.15 .20	NO NO		49 46	
A 306	8											
A 306L			TB1-34B J24-D4	21 81				.15 .20	NO NO		49 46	
A 306R			TB1-34A J24-D3	21 81				.15 .20	NO NC		49 46	
A 307	8											
A 307L			TB1-35B J24-L6	23 81				.15 .20	NO NC		49 46	
A 307R			TB1-35A J24-D5	23 81				.15 .20	NO NO		49 46	
A 308	17				.25 2.25	3.00 2.00				6,7 C,6A	63 64, 63	
A 308B	1		E19 SHLD A308	172				.25 .25	NO NO			
A 308L			J4-H J24-M5	88 81				.25 .20	NO NO		46	
A 308R			J4-G J24-M1	88 81				.25 .20	NO NO		46	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 308Y			J4-J J24-M2	88 81				.25 .20	NO NO		46	
A 309	17				3.25 2.25	3.00 2.00				B,7 C,6A	63 64, 63	
A 309B	1		E19 SHLD A309	172				.25 .25	NO NO			
A 309L			J4-B J24-N6	88 81				.25 .20	NO NO		46	
A 309R			J4-A J24-L6	88 81				.25 .20	NO NO		46	
A 309Y			J4-C J24-M6	88 81				.25 .20	NO NC		46	
A 310	1		J24-G1 J23-H6	81 82				.20 .20	NO NO		46 46	
A 311	8											
A 311L			J24-K1 J23-L6	81 82				.20 .20	NO NO		46 46	
A 311R			J24-H1 J23-K6	81 82				.20 .20	NO NO		46 46	
A 312	1		J24-A6 J23-A6	81 82				.20 .20	NO NO		46 46	
A 313	1		J24-K3 TB1-29B	81 19				.20 .15	NO NO		46 49	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 314	1		J24-H3 TB1-29D	81 19				.20 .15	NO NO		46 49	
A 315	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 315B	1		TB1-30A SHLD A315	20				.15 .25	NO NO		49	
A 315E			J6-B1 TB1-29C	108 20				.15 .15	NO NO		40 49	
A 315X			J6-B2 SHLD A315	108								
A 316	7				.52 2.25	.25 2.00				E,10 A,5	41, 42, 63 53, 52, 63	
A 316B	1		TB1-30B SHLD A316	20				.15 .25	NO NO		49	
A 316E			J10-C1 TB1-29A	97 20				.15 .15	NC NO		40 49	
A 316X			J10-C2 SHLD A316	97								
A 317	1		TB1-29C J23-N5	19 82				.15 .20	NO NO		49 46	
A 318	1		TB1-29A J23-N6	19 82				.15 .20	NC NO		49 46	
A 319	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319B	1		TB1-37B SHLD A319	24				.15 .25	NO NO		49	
A 319E			J6-A1 TB1-36B	108 24				.15 .15	NO NO		40 49	
A 319X			J6-A2 SHLD A319	106								
A 320	10				3.25 2.25	3.00 2.00				E,7 A,4	63 57, 56, 63	
A 320B	1		E19 SHLD A320	172				.25 .25	NO NO			
A 320L			J11-G TB1-37A	114 24				.25 .15	NO NO		49	
A 320R			J11-F TB1-36A	114 24				.25 .15	NO NO		49	
A 321	1		TB1-36A J24-H6	23 81				.15 .20	NO NO		49 46	
A 322	1		TB1-36B J24-K4	23 81				.15 .20	NO NO		49 46	
A 323	2		TB1-37B J24-R6	23 81				.15 .20	NO NO		48 46	
A 324	1		TB1-35D TB1-37A	23 23				.15 .15	NO NO		49 49	
A 325	2		TB1-37C TB5-16W	24 156				.15 .25	NO NC		48 50	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326	2		TB1-37D TB3-18X	24 156				.15 .25	NO NO		48 50	
A 327	12											
A 327K			J24-R2 TB1-24C	81 16				.20 .15	NO NO		46 48	
A 327L			J24-S5 TB1-23C	81 16				.20 .15	NO NO		46 48	
A 327R			J24-S3 TB1-23A	81 16				.20 .15	NO NO		46 48	
A 327Y			J24-S2 TB1-24A	81 16				.20 .15	NO NO		46 48	
A 328	14											
A 328L			J23-S1 TB1-24B	82 15				.20 .15	NO NO		46 48	
A 328R			J23-S3 TB1-23D	82 15				.20 .15	NO NO		46 48	
A 328Y			J23-R1 TB1-24D	82 15				.20 .15	NO NO		46 48	
A 329	12											
A 329K			TB1-24C J22-K6	15 83				.15 .20	NO NO		48 46	

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SCALE-NONE	REV LTR E	SHEET 91 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329L			TB1-23C J22-M5	15 83				.15 .20	NO NO		48 46	
A 329R			TB1-23A J22-M6	15 83				.15 .20	NO NO		48 46	
A 329Y			TB1-24A J22-L6	15 83				.15 .20	NO NO		48 46	
A 330	2		J24-P6 TB1-5B	81 3				.20 .15	NO NO		46 48	
A 331	2		TB1-5B J23-P6	4 82				.15 .20	NO NO		48 46	
A 332	2		TB1-5A J2-F	4 87				.15 .25	NO NO		48	
A 333	1		J21-N6 TB1-5A	84 3				.20 .15	NO NO		46 49	
A 334	2		J21-N6 TB1-5C	84 3				.20 .15	NO NO		48	
A 335	10				3.25 2.25	3.00 2.00				A,4 E,7	57, 56, 63 63	
A 335A	1		SHLD A335 E7	161				.25 .25	NO NO			
A 335L			J4-Y J23-B1	86 82				.25 .20	NO NO		46	
A 335R			J4-X J23-A1	88 82				.25 .20	NO NO		46	

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SCALE-NONE	REV LTR E	SHEET 92 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 336	10				3.25 2.25	3.00 2.00				A,4 E,7	57, 56, 63 63	
A 336A	1		SHLD A336 E7	161				.25 .25	NO NO			
A 336L			J4-A* J23-B3	86 82				.25 .20	NO NO		46	
A 336R			J4-Z J23-A3	88 82				.25 .20	NO NO		46	
A 337	8											
A 337L			J23-F2 TB1-31B	82 19				.20 .15	NO NO		46 49	
A 337R			J23-C2 TB1-31A	82 19				.20 .15	NO NO		46 49	
A 338	10				2.25 3.25	2.00 3.00				A,4 E,7	57, 56, 63 63	
A 338A	1		SHLD A338 E20	169				.25 .25	NO NO			
A 338L			TB1-31D J11-A*	20 114				.15 .25	NO NO		49	
A 338R			TB1-31A J11-Z	20 114				.15 .25	NO NO		49	
A 339	10				2.25 3.25	2.00 3.00				A,4 E,7	57, 56, 63 63	

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SCALE-NONE	REV LTR E	SHEET 93 OF 173

MIL 3966 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 339A	1		SHLD A339 E20	169				.25 .25	NO NO			
A 339L			TB1-31C J11-E	20 114				.15 .25	NO NO		49	
A 339R			TB1-31B J11-D	20 114				.15 .25	NO NO		49	
A 340	2		TB1-31D T31-32C	19 22				.15 .15	NO NO		48 48	
A 341	2		TB1-30A TB1-32A	19 21				.15 .15	NO NO		48 48	
A 342	2		J23-R6 TB1-32C	82 21				.20 .15	NO NO		46 48	
A 343	2		TB1-32B TB3-18V	21 156				.15 .25	NO NO		48 50	
A 344	2		TB1-32B TB3-18V	22 156				.15 .25	NO NO		48 50	
A 345	17				3.25 2.25	3.00 2.00				E,7 C,6A	63 64, 63	
A 345B	1		E20 SHLD A345	169				.25 .25	NO NO			
A 345L			J4-V J23-K1	88 82				.25 .20	NO NO		46	
A 345R			J4-U J23-H1	88 82				.25 .20	NO NO		46	

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SCALE-NONE	REV LTR E	SHEET 94 OF 173

MIL 3966 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			J4-W J23-L1	68 62			.25 .20	NO NO		46	
A 346	17				3.25 2.25	3.00 2.00			B,7 C,6A	63 64, 63	
A 346B	1		E20 SHLD A346	169			.25 .25	NO NO			
A 346L			J4-P J23-M3	68 62			.25 .20	NO NO		46	
A 346R			J4-N J23-L3	68 62			.25 .20	NO NO		46	
A 346Y			J4-R J23-N3	68 62			.25 .20	NO NO		46	
A 347	1		J4-S J4-T	68 68			.25 .25	NO NO			
A 348	2		J4-T TB3-1D	68 139			.25 .25	NO NO		50	
A 349	17				3.25 2.25	3.00 2.00			B,7 C,6A	63 64, 63	
A 349B	1		E20 SHLD A349	169			.25 .25	NO NO			
A 349L			J4-E J23-F6	68 62			.25 .20	NO NO		46	
A 349R			J4-D J23-D6	68 62			.25 .20	NO NO		46	

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MIL 2004 4 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349Y			J4-F J23-G6	68 62			.25 .20	NO NO		46	
A 350	5				3.25 2.25	3.00 2.00			A,4 B,7	53, 52, 63 63	
A 350A	1		SHLD A350 E26	191			.25 .25	NO NO			
A 350W			J5-F J22-A2	92 83			.25 .20	NO NO		46	
A 351	5				3.25 2.25	3.00 2.00			A,4 B,7	53, 52, 63 63	
A 351A	1		SHLD A351 E26	191			.25 .25	NO NO			
A 351W			J5-G J22-B1	92 83			.25 .20	NO NO		46	
A 352	5				3.25 2.25	3.00 2.00			A,4 B,7	53, 52, 63 63	
A 352A	1		SHLD A352 E26	191			.25 .25	NO NO			
A 352W			J5-E J22-A1	92 83			.25 .20	NO NO		46	
A 353	2		J22-B2 TB3-18T	83 156			.20 .25	NO NO		46 50	
A 354	1		J5-H J22-A5	92 83			.25 .20	NO NO		46	

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MIL 2004 4 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 355	1		J5-I J22-A6	92 83			.25 .20	NO NO		46	
A 356	1		J5-J J22-B6	92 83			.25 .20	NO NO		46	
A 357	7				.52 2.25	.25 2.00			B,10 A,5	41, 42, 63 53, 52, 63	
A 357B	1		TB1-25C SHLD A357	16			.15 .25	NO NO		49	
A 357E			J7-E1 TB1-25A	95 16			.15 .15	NO NO		40 49	
A 357X			J7-E2 SHLD A357	95							
A 358	7				.52 2.25	.25 2.00			B,10 A,5	41, 42, 63 53, 52, 63	
A 358B	1		TB1-25D SHLD A358	16			.15 .25	NO NO		49	
A 358E			J7-F1 TB1-25B	95 16			.15 .15	NO NO		40 49	
A 358X			J7-F2 SHLD A358	95							
A 359	13										
A 359L			TB1-25C J22-F2	15 83			.15 .20	NO NO		49 46	

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MIL 2004 4 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 359R			TB1-25A J22-G1	15 83			.15 .20	NO NO		49 46	
A 359Y			TB1-25B J22-G2	15 83			.15 .20	NO NO		49 46	
A 360	6				3.25 2.25	3.00 2.00			A,4 B,7	55, 54, 63 63	
A 360A	1		SHLD A360 E26	191			.25 .25	NO NO			
A 360W			J5-B J22-H2	92 83			.25 .20	NO NO		46	
A 361	5				3.25 2.25	3.00 2.00			A,4 B,7	53, 52, 63 63	
A 361A	1		SHLD A361 E26	191			.25 .25	NO NO			
A 361W			J5-A J22-A1	92 83			.25 .20	NO NO		46	
A 362	5				3.25 2.25	3.00 2.00			A,4 B,7	53, 52, 63 63	
A 362A	1		SHLD A362 E26	191			.25 .25	NO NO			
A 362W			J5-D J22-A2	92 83			.25 .20	NO NO		46	
A 363	1		J11-C J22-G3	114 83			.25 .20	NO NO		46	

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MIL 2004 4 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 382E			J7-D1 TB1-7A	95 4				.15 .15	NO NO		40 49	
A 382X			J7-D2 SHLD A3P2	95								
A 383	7				.52 2.25	.25 2.00				8,10 A,5	41, 42, 63 53, 52, 63	
A 383B	1		TB1-6D SHLD A3P3	4				.15 .25	NO NO		49	
A 383E			J7-C1 TB1-7B	95 4				.15 .15	NO NO		40 49	
A 383X			J7-C2 SHLD A3P3	95								
A 384	13											
A 384L			TB1-6B J21-M5	3 84				.15 .20	NO NO		49 46	
A 384R			TB1-7A J21-L6	3 84				.15 .20	NO NO		49 46	
A 384Y			TB1-7B J21-M6	3 84				.15 .20	NO NO		49 46	
A 385	2		TB1-6B TB3-16R	4 158				.15 .25	NO NO		48 50	
A 386	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	

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SCALE - NONE	REV LTR E	SHEET 103 OF 173

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 386A	1		SHLD A3P6 E26	 171				.25 .25	NO NO			
A 386L			J31-G* TB2-26A	89 54				.25 .15	NO NO		 49	
A 386R			J31-P* TB2-24A	89 54				.25 .15	NO NO		 49	
A 387	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 387B	1		E14 SHLD A387	178				.25 .25	NO NO			
A 387L			J16-S TB2-26B	112 54				.25 .15	NO NO		 49	
A 387R			J16-R TB2-24B	112 54				.25 .15	NO NO		 49	
A 388	8											
A 388L			TB2-26A J28-C7	53 77				.15 .25	NO YES		49 47	
A 388R			TB2-24A J28-C7	53 77				.15 .25	NO YES		49 47	
A 389	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 389A	1		SHLD A389 E25	 188				.25 .25	NO NO			

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SCALE - NONE	REV LTR E	SHEET 104 OF 173

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 389L			J31-Z* TB2-26C	89 54				.25 .15	NO NO		 49	
A 389R			J31-Y* TB2-24C	89 54				.25 .15	NO NO		 49	
A 390	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 390B	1		E14 SHLD A390	178				.25 .25	NO NO			
A 390L			J16-U TB2-25B	112 54				.25 .15	NO NO		 49	
A 390R			J16-T TB2-24D	112 54				.25 .15	NO NO		 49	
A 391	8											
A 391L			TB2-26B J28-D8	53 77				.15 .25	NO YES		49 47	
A 391R			TB2-24C J28-C8	53 77				.15 .25	NO YES		49 47	
A 392	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 392A	1		SHLD A392 E25	 188				.25 .25	NO NO			
A 392L			J31-BB TB2-25C	89 54				.25 .15	NO NO		 49	

MANNED SPACECRAFT CENTER HOUSTON TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 105 OF 173

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 392R			J31-AA TB2-27A	89 54				.25 .15	NO NO		 49	
A 393	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 393B	1		E14 SHLD A393	178				.25 .25	NO NO			
A 393L			J16-M TB2-25D	112 54				.25 .15	NO NO		 49	
A 393R			J16-L TB2-27B	112 54				.25 .15	NO NO		 49	
A 394	8											
A 394L			TB2-26C J28-C9	53 77				.15 .25	NO YES		49 47	
A 394R			TB2-27A J28-C9	53 77				.15 .25	NO YES		49 47	
A 395	2		TB2-26D TB2-25A	54 54				.15 .15	NO NO		48 48	
A 396	2		TB2-25D TB3-17B	53 124				.15 .25	NO NO		48 50	
A 397	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 397B	1		TB2-28C SHLD A397	56				.15 .25	NO NO		49	

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SCALE - NONE	REV LTR E	SHEET 106 OF 173

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397E			J6-E1 TB2-28A	108 56				.15 .15	NC NO		40 49	
A 397X			J6-E2 SHLD A397	108								
A 398	7				.52 2.25	.25 2.00				5,10 A,5	41, 42, 63 53, 52, 63	
A 398B	1		TB2-28D SHLD A398	56				.15 .25	NC NO		49	
A 398E			J6-F1 TB2-28B	108 56				.15 .15	NO NO		40 49	
A 398X			J6-F2 SHLD A398	108								
A 399	13											
A 399L			TB2-28C J28-H5	55 77				.15 .20	NO NO		49 46	
A 399R			TB2-28A J28-C5	55 77				.15 .20	NC NO		49 46	
A 399Y			TB2-28B J28-K5	55 77				.15 .20	NO NO		49 46	
A 400	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 400B	1		TB2-29C SHLD A400	56				.15 .25	NO NO		49	

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SCALE-NONE | REV LTR E | SHEET 107 OF 173

MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 400E			J6-C1 TB2-29A	108 56				.15 .15	NO NO		40 49	
A 400X			J6-C2 SHLD A400	108								
A 401	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 401B	1		TB2-29D SHLD A401	56				.15 .25	NO NO		49	
A 401E			J6-D1 TB2-29B	108 56				.15 .15	NO NO		40 49	
A 401X			J6-D2 SHLD A401	108								
A 402	13											
A 402L			TB2-29C J28-H3	55 77				.15 .20	NO NO		49 46	
A 402R			TB2-29A J28-G3	55 77				.15 .20	NO NO		49 46	
A 402Y			TB2-29B J28-K3	55 77				.15 .20	NO NO		49 46	
A 403	1		J28-L1 J28-L2	77 77				.20 .20	NO NO		46 46	
A 404	1		J28-L2 J28-L3	77 77				.20 .20	NO NO		46	

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SCALE-NONE | REV LTR E | SHEET 108 OF 173

MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J28-L3 J28-L4	77 77				.20 .20	NO NO		46	
A 406	1		J28-L4 J28-L5	77 77				.20 .20	NO NO		46	
A 407	1		J28-L5 J26-L6	77 77				.20 .20	NO NO		46	
A 408	2		TB2-19C TB2-30A	49 58				.15 .15	NO NO		48 48	
A 409	1		TB2-30A J29-L6	57 77				.15 .20	NO NO		49	
A 410	2		TB2-30B TB3-17C	57 123				.15 .25	NO NO		48 50	
A 411	2		TB2-16B TB2-31A	47 56				.15 .15	NO NO		48 48	
A 412	2		TB2-22B TB2-31C	51 58				.15 .15	NO NO		48 48	
A 413	2		TB2-23B TB2-30D	51 57				.15 .15	NO NO		48 48	
A 414	1		TB2-30C J28-K4	57 77				.15 .20	NO NO		49 46	
A 415	1		TB2-31A J28-R5	57 77				.15 .20	NO NO		49 46	
A 416	1		TB2-31C J28-R6	57 77				.15 .20	NO NO		49 46	

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SCALE-NONE | REV LTR E | SHEET 109 OF 173

MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 417	2		J28-S3 TB3-17D	77 123				.20 .25	NO NO		46 50	
A 418	2		TB2-31D TB3-17F	57 123				.15 .25	NO NO		48 50	
A 419	2		TB2-30B TB3-17C	58 123				.15 .25	NO NO		48 50	
A 420	2		TB2-30C TB3-17G	58 123				.15 .25	NO NO		48 50	
A 421	2		TB2-31B TB3-17H	58 121				.15 .25	NO NO		48 50	
A 422	2		TB2-31D TB3-17F	58 123				.15 .25	NO NO		48 50	
A 423	2		J28-T2 TB2-46A	77 67				.20 .15	NO NO		46 48	
A 424	2		J29-T5 TB2-46B	76 67				.20 .15	NO NO		46 48	
A 425	2		J27-T6 TB2-46A	78 66				.20 .15	NO NO		46 48	
A 426	2		TB2-46B J30-N6	68 75				.15 .20	NO NO		48 46	
A 427	2		J16-AA TB2-47D	112 66				.25 .15	NO NO		48	
A 428	2		TB2-47C J26-S6	67 79				.15 .20	NO NO		48 46	

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SCALE-NONE | REV LTR E | SHEET 110 OF 173

MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	2		TB2-47C J30-P6	68 75				.15 .20	NO NO		48 46	
A 430	2		J26-S5 TB2-47B	79 67				.20 .15	NO NO		46 48	
A 433	2		J26-R5 TB3-17J	79 121				.20 .25	NO NO		46 50	
A 434	2		J26-R6 TB3-17K	79 121				.20 .25	NO NO		46 50	
A 435	1		J21-P5 J21-P4	84 84				.20 .20	NO NO		46 46	
A 436	1		J21-P4 J21-R4	84 84				.20 .20	NO NO		46	
A 437	2		J21-R4 TB1-8C	84 5				.20 .15	NO NO		48	
A 438	2		J21-P2 TB1-8B	84 5				.20 .15	NO NO		46 48	
A 439	2		J21-S6 TB1-8A	84 5				.20 .15	NO NO		46 48	
A 440	2		TB1-8B TB3-18S	6 158				.15 .25	NO NO		48 50	
A 441	2		TB1-8C TB3-18P	6 158				.15 .25	NO NO		48 50	
A 442	1		J21-R2 J21-R1	84 84				.20 .20	NO NO		46 46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	2		J21-R1 TB1-9D	84 5				.20 .15	NO NO		48	
A 444	2		J21-P6 TB1-9A	84 5				.20 .15	NO NO		46 48	
A 445	2		TB1-9B TB3-18Q	6 158				.15 .25	NO NO		48 50	
A 446	2		TB1-9C TB3-18M	6 160				.15 .25	NO NO		48 50	
A 447	1		J21-P3 J21-R3	84 84				.20 .20	NO NO		46 46	
A 448	2		J21-R3 TB1-10A	84 5				.20 .15	NO NO		48	
A 449	2		J21-R5 TB1-10B	84 5				.20 .15	NO NO		46 48	
A 450	2		J21-R6 TB1-10D	84 5				.20 .15	NO NO		46 48	
A 451	2		TB1-10B TB3-18N	6 160				.15 .25	NO NO		48 50	
A 452	2		TB1-10C TB3-18K	5 160				.15 .25	NO NO		48 50	
A 453	1		J12-CC J27-F2	113 78				.25 .25	NO YES		47	
A 454	1		J27-F2 TB2-11C	78 43				.25 .15	YES NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 455	15				2.25 2.25	2.00 2.00				A,4 B,7	59, 65, 63 63	
A 455A	1		SHLD A455 E22	170				.25 .25	NO NO			
A 455L			J21-N2 TB2-11E	84 44				.20 .15	NO NO		46 49	
A 455R			J21-P1 TB2-11A	84 44				.20 .15	NO NO		46 49	
A 455Y			J21-N1 TB2-11C	84 44				.20 .15	NO NO		46 49	
A 456	13											
A 456L			TB2-11D J27-P2	43 76				.15 .20	NO NO		49 46	
A 456R			TB2-11A J27-N2	43 78				.15 .20	NO NO		49 46	
A 456Y			TB2-11B J27-R2	43 78				.15 .20	NO NO		49 46	
A 457	2		T62-11D TB2-12A	44 46				.15 .15	NO NO		48 48	
A 458	1		J27-S2 J27-S1	78 78				.20 .20	NO NO		46 46	
A 459	2		J27-S1 TB2-12B	78 45				.20 .15	NO NO		48	

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MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 460	1		J27-S4 J27-S3	78 78				.20 .20	NO NO		46 46	
A 461	2		J27-S3 TB2-12D	78 45				.20 .15	NO NO		48	
A 462	2		TB2-12B TB3-18L	46 160				.15 .25	NO NO		48 50	
A 463	2		TB2-12C TB3-18H	46 162				.15 .25	NO NO		48 50	
A 464	2		J27-R6 TB3-17L	78 121				.20 .25	NO NO		46 50	
A 465	2		J27-S6 TB3-17M	78 119				.20 .25	NO NO		46 50	
A 466	16				3.25 2.25	3.00 2.00				B,7 A,4	62 60, 61, 62	
A 466B	1		E8 SHLD A466	100				.25 .25	NO NO			
A 466L			J31-F TB2-37B	89 62				.25 .15	NO NO		48	
A 466R			J31-E TB2-37A	89 62				.25 .15	NO NO		48	
A 466Y			J31-D TB2-37C	89 62				.25 .15	NO NO		48	
A 467	9											

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 467L			TB2-37C J29-S3	61 76				.15 .20	NO NO		48 46	
A 467R			TB2-37A J29-T3	61 76				.15 .20	NO NO		48 46	
A 466	2		TB2-37B TB2-35C	61 59				.15 .15	NO NO		48 48	
A 469	10				3.25 2.25	3.00 2.00				A,4 E,7	57, 56, 63 63	
A 469A	1		SHLD A469 E12	196				.25 .25	NO NO			
A 469L			J17-G* J29-D2	199 76				.25 .25	NO YES		47	
A 469R			J17-F* J29-D3	199 76				.25 .25	NO YES		47	
A 470	16				3.25 2.25	3.00 2.00				E,7 A,4	62 60, 61, 62	
A 470B	1		E8 SHLD A470	180				.25 .25	NO NO			
A 470L			J19-G* TB2-38D	106 62				.25 .15	NO NO		48	
A 470R			J19-B* TB2-38A	106 62				.25 .15	NO NO		48	
A 470Y			J19-A* TB2-36C	106 62				.25 .15	NO NO		48	

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SCALE-NONE	REV LTR E	SHEET 115 OF 173

MIL 2044 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 471	9											
A 471L			TB2-38C J29-S1	61 76				.15 .20	NO NO		48 46	
A 471R			TB2-38A J29-T1	61 76				.15 .20	NO NO		48 46	
A 472	2		TB2-38B TB2-36A	61 61				.15 .15	NO NO		48 48	
A 473	16				3.25 2.25	3.00 2.00				E,7 A,4	62 60, 61, 62	
A 473B	1		E8 SHLD A473	180				.25 .25	NO NO			
A 473L			J18-Z TB2-39D	96 64				.25 .15	NO NO		48	
A 473R			J18-P* TB2-39A	96 64				.25 .15	NO NO		48	
A 473Y			J18-N* TB2-39C	96 64				.25 .15	NO NO		48	
A 474	2		TB2-39B TB2-36D	63 61				.15 .15	NO NO		48 48	
A 475	1		J30-B7 J29-L1	75 76				.25 .20	YES NO		46	
A 476	1		J29-L1 J29-L2	76 76				.20 .20	NO NO		46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
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MIL 2044 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J29-L2 J29-L3	76 76				.20 .20	NO NO		46	
A 478	1		J29-L3 J29-L4	76 76				.20 .20	NO NO		46	
A 479	1		J29-L4 J29-L5	76 76				.20 .20	NO NO		46	
A 480	1		J29-L5 J29-L6	76 76				.20 .20	NO NO		46	
A 481	2		J29-L6 TB2-35B	76 59				.20 .15	NO NO		48	
A 482	2		TB2-35C TB2-35A	59 59				.15 .15	NO NO		48 48	
A 483	2		TB2-35A TB3-17N	60 119				.15 .25	NO NO		48 50	
A 484	2		TB2-35B TB3-17P	60 119				.15 .25	NO NO		48 50	
A 485	2		J29-R1 TB2-36B	76 61				.20 .15	NO NO		46 48	
A 486	2		TB2-36A TB3-17R	62 117				.15 .25	NO NO		48 50	
A 487	2		TB2-36B TB3-17S	62 117				.15 .25	NO NO		48 50	
A 488	2		J29-R2 TB2-36C	76 61				.20 .15	NO NO		46 48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 117 OF 173

MIL 2044 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	2		TB2-36C TB3-17R	62 117				.15 .25	NO NO		48 50	
A 490	2		TB2-36D TB3-17S	62 117				.15 .25	NO NO		48 50	
A 491	2		J29-R3 TB2-35D	76 59				.20 .15	NO NO		46 48	
A 492	2		TB2-35C TB3-17Q	60 119				.15 .25	NO NO		48 50	
A 493	2		TB2-35D TB3-17P	60 119				.15 .25	NO NO		48 50	
A 494	2		J29-S4 TB3-17T	76 117				.20 .25	NO NO		46 50	
A 495	2		J29-S5 TB3-17V	76 117				.20 .25	NO NO		46 50	
A 496	1		J27-T1 J27-T2	78 78				.20 .20	NO NO		46 46	
A 497	2		J27-T1 TB2-48A	78 69				.20 .15	NC NO		48	
A 498	2		J12-C* TB2-48B	113 70				.25 .15	NO NO		48	
A 499	2		TB2-48A J30-R3	70 75				.15 .20	NO NO		48 46	
A 500	2		TB2-48B J30-R4	69 75				.15 .20	NO NO		48 46	

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SCALE-NONE	REV LTR E	SHEET 118 OF 173

MIL 2044 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	2		J15-H J30-H2	110 75				.25 .20	YES NO		43 46	
A 502	1		J15-H J30-H2	110 75				.25 .20	YES NO			
A 503	1		J15-H J14-V*	110 111				.25 .25	YES NO			
A 504	2		J15-P J30-H3	110 75				.25 .20	YES NO		43 46	
A 505	1		J15-P J30-H3	110 75				.25 .20	YES NO			
A 506	1		J15-P J14-W*	110 111				.25 .25	YES NO			
A 507	2		J15-K TB2-49A	110 70				.25 .15	YES NO		43 48	
A 508	1		J15-K TB2-49B	110 70				.25 .15	YES NO		49	
A 509	1		J15-A J14-W	110 111				.25 .25	YES NO			
A 510	2		TB2-49A J30-T3	69 75				.15 .20	NO NO		48 46	
A 511	2		TB2-49B J30-S3	69 75				.15 .20	NO NO		48 46	
A 512	2		J15-L TB2-49C	110 70				.25 .15	YES NO		43 48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		J15-L TB2-49D	110 70				.25 .15	YES NO		49	
A 514	1		J15-L J14-X	110 111				.25 .25	YES NO			
A 515	2		TB2-49C J30-T4	69 75				.15 .20	NO NO		48 46	
A 516	2		TB2-49D J30-S4	69 75				.15 .20	NO NO		48 46	
A 517	2		J15-A TB2-50A	110 70				.25 .15	YES NO		43 48	
A 518	1		J15-A TB2-50B	110 70				.25 .15	YES NO		49	
A 519	2		J15-B TB2-50C	110 70				.25 .15	YES NO		43 48	
A 520	1		J15-B TB2-50D	110 70				.25 .15	YES NO		49	
A 521	1		J15-B J14-Y	110 111				.25 .25	YES NO		43	
A 522	2		TB2-50A J30-P1	69 75				.15 .20	NO NO		48 46	
A 523	2		TB2-50B J30-R1	69 75				.15 .20	NO NO		48 46	
A 524	2		TB2-50C J30-S1	69 75				.15 .20	NO NO		48 46	

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MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	2		TB2-50D J30-T1	69 75				.15 .20	NO NO		48 46	
A 526	2		J15-C TB2-51A	110 72				.25 .15	YES NO		43 48	
A 527	1		J15-C TB2-51B	110 72				.25 .15	YES NO		49	
A 528	2		J15-D TB2-51C	110 72				.25 .15	YES NO		43 48	
A 529	1		J15-D TB2-51D	110 72				.25 .15	YES NO		49	
A 530	1		J15-D J14-Z	110 111				.25 .25	YES NO			
A 531	2		TB2-51A J30-P2	71 75				.15 .20	NO NO		48 46	
A 532	2		TB2-51B J30-R2	71 75				.15 .20	NO NO		48 46	
A 533	2		TB2-51C J30-S2	71 75				.15 .20	NO NO		48 46	
A 534	2		TB2-51D J30-T2	71 75				.15 .20	NO NO		48 46	
A 535	4		J15-E TB3-18J	110 162				.25 .25	YES NO		43 50	
A 536	4		J15-F TB3-18F	110 162				.25 .25	YES NC		43 50	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902255 | SCALE-NONE | REV LTR E | SHEET 121 OF 173

MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		J14-U* TB3-18G	111 162				.25 .25	NO NO		50	
A 538	2		J2-E TB3-18C	87 164				.25 .25	NO NO		50	
A 539	2		J5-N TB3-18D	92 164				.25 .25	NO NO		50	
A 540	2		J5-P TB3-18A	72 164				.25 .25	NO NO		50	
A 541	2		J5-R TB3-18B	92 164				.25 .25	NO NO		50	
A 542	2		J30-K1 TB3-18X	75 156				.20 .25	NO NO		46 50	
A 543	2		J30-K2 TB3-18S	75 158				.20 .25	NO NO		46 50	
A 544	2		J30-H1 TB3-18Q	75 158				.20 .25	NO NO		46 50	
A 545	4		E219 TB3-18N	888 160				.25 .25	NO NO		51 50	
A 546	2		J20-A TB2-52A	93 72				.25 .15	YES NO		43 48	
A 547	1		J20-A TB2-52B	93 72				.25 .15	YES NO		49	
A 548	2		J20-B TB2-52C	93 72				.25 .15	YES NO		43 48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902255 | SCALE-NONE | REV LTR E | SHEET 122 OF 173

MIL 2066 A 63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 549	1		J20-B	93				.25	YES			
			TB2-52D	72				.15	NO		49	
A 550	1		J20-A	93				.25	YES			
			J20-H	93				.25	YES		43	
A 551	2		TB2-52A	71				.15	NO		48	
			J30-R5	75				.20	NO		46	
A 552	2		TB2-52B	71				.15	NO		48	
			J30-S5	75				.20	NO		46	
A 553	2		TB2-52C	71				.15	NO		48	
			J30-T5	75				.20	NO		46	
A 554	2		J20-C	93				.25	YES		43	
			TB2-55A	72				.15	NO		48	
A 555	1		J20-C	93				.25	YES			
			TB2-55B	72				.15	NO		49	
A 556	2		J20-D	93				.25	YES		43	
			TB2-55C	72				.15	NO		48	
A 557	1		J20-D	93				.25	YES			
			TB2-55D	72				.15	NO		49	
A 558	1		J20-D	93				.25	YES			
			J20-F	93				.25	YES		43	
A 559	2		TB2-53A	71				.15	NO		48	
			J30-R6	75				.20	NO		46	
A 560	2		TB2-53B	71				.15	NO		48	
			J30-S6	75				.20	NO		46	

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MIL 2066 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 561	2		TB2-53C	71				.15	NO		48	
			J30-T6	75				.20	NO		46	
A 562	2		J17-V*	109				.25	NO			
			TB3-17D	123				.25	NO		50	
A 563	4		J20-E	93				.25	YES		43	
			TB3-17G	123				.25	NO		50	
A 564	4		J20-J	93				.25	YES		43	
			TB3-17W	115				.25	NO		50	
A 565	2		J31-DD	89				.25	NO			
			TB3-17J	121				.25	NO		50	
A 566	2		J32-D*	90				.25	NO			
			TB3-17X	115				.25	NO		50	
A 567	2		J15-BB	112				.25	NO			
			TB3-17L	121				.25	NO		50	
A 568	2		J31-EE	89				.25	NO			
			TB3-17Y	115				.25	NO		50	
A 569	2		J32-A*	90				.25	NO			
			TB3-17N	119				.25	NC		50	
A 570	2		J30-P3	75				.20	NO		46	
			TB3-17Q	119				.25	NO		50	
A 571	2		J30-P4	75				.20	NO		46	
			TB3-17Z	115				.25	NC		50	
A 572	4		E219	88B				.25	NO		51	
			TB3-17V	117				.25	NO		50	

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MIL 2066 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 573	1		J26-N4	79				.20	NO			
			TB3-2S	140				.25	NO		50	
A 574	2		J2-G	87				.25	NO			
			TB3-2P	142				.25	NO		50	
A 575	4		E219	88B				.25	NO		71	
			TB3-2M	142				.25	NO		50	
A 576	4		E219	88B				.25	NO		51	
			TB3-1V	133				.25	NO		50	
A 577	2		J18-B	96				.25	NO			
			TB3-1G	137				.25	NO		50	
A 578	2		J19-B	106				.25	NO			
			TB3-1C	140A				.25	NO		50	
A 579	2		J5-B	92				.25	NO			
			TB3-1S	133				.25	NO		50	
A 580	4		J15-G	110				.25	YES		43	
			TB3-1T	133				.25	NO		50	
A 581	4		J20-G	93				.25	YES		43	
			TB3-1K	137				.25	NO		50	
A 582	3		J20-K	93				.25	YES		66	
			TB3-1M	135				.25	NO		50	
A 583	2		J31-B	89				.25	NO			
			TB3-1P	135				.25	NO		50	
A 584	2		J32-B	90				.25	NO			
			TB3-1R	133				.25	NO		50	

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MIL 2066 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 585	1		J15-B	112				.25	NO			
			TB3-1A	139				.25	NO		50	
A 586	2		J14-X*	111				.25	NO			
			TB3-7A	150				.15	NO		48	
A 587	2		E219	88E				.25	NO		51	
			TB3-7B	150				.15	NO		48	
A 588	2		E219	88B				.25	NO		51	
			TB3-7C	150				.15	NO		48	
A 589	2		TB2-47B	68				.15	NC		48	
			J22-S6	83				.20	NO		46	
A 590	1		TB2-47A	68				.15	NO		49	
			J17-CC	109				.25	NO			
A 591	2		TB2-47A	67				.15	NO		48	
			J30-P5	75				.20	NO		46	
A 592	2		J30-M5	75				.20	NO		46	
			TB2-54B	73				.15	NO		48	
A 593	2		J30-N5	75				.20	NO		46	
			TB2-54C	73				.15	NO		48	
A 594	2		TB2-54A	73				.15	NO		48	
			J22-L1	83				.20	NO		46	
A 595	2		TB2-54B	74				.15	NO		48	
			J27-R5	78				.20	NO		46	
A 596	2		TB2-54C	74				.15	NO		48	
			J12-D*	113				.25	NC			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 597	2		TB2-54D J5-K*	74 92			.15 .25	NO NO		48	
A 598	1		J11-Y J22-L2	114 83			.25 .20	NO NO		46	
A 599	1		J22-N6 J22-R6	83 83			.20 .20	NO NO		46 46	
A 600	2		J22-R6 TB3-17X	83 115			.20 .25	NO NO		50	
A 601	8										
A 601L			J17-K TB3-8E	109 150			.25 .15	NO NO		49	
A 601R			J17-J TB3-9A	159 150			.25 .15	NO NO		49	
A 602	2		TB3-17Z TB3-9A	115 128			.25 .15	NO NO		50 48	
A 603	13										
A 603L			TB3-8B J32-BB	129 90			.15 .25	NO NO		49	
A 603R			TB3-8A J32-AA	129 90			.15 .25	NO NO		49	
A 603Y			TB3-9B J32-CC	129 90			.15 .25	NO NO		49	

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MIL 2084 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 604	1		J17-L TB3-8C	109 150			.25 .15	NO NO		49	
A 605	8										
A 605L			TB3-8D J31-X	129 89			.15 .25	NO NO		49	
A 605R			TB3-8C J31-W	129 89			.15 .25	NO NO		49	
A 606	1		TB3-8D TB3-9B	150 151			.15 .15	NO NO		49 49	
A 607	9										
A 607L			J29-S2 TB2-39C	76 63			.20 .15	NO NO		46 48	
A 607R			J29-T2 TB2-39A	76 63			.20 .15	NO NO		46 48	
A 608	8										
A 608L			J12-F* K13-11	113 164A			.25 .25	NO YES		45	
A 608R			J12-E* K13-4	113 164A			.25 .25	NO YES		45	
A 610	12										

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 610K			J21-M2 TB1-12D	84 7			.20 .15	NO NO		46 48	
A 610L			J21-M1 TB1-11B	84 7			.20 .15	NO NO		46 48	
A 610R			J21-L1 TB1-11A	84 7			.20 .15	NO NO		46 48	
A 610Y			J21-L2 TB1-12C	84 7			.20 .15	NO NO		46 48	
A 611	11				2.25 3.25	2.00 3.00			A,4 B,7	59, 58, 63 63	
A 611A	1		SHLD A611 E22	170			.25 .25	NO NO			
A 611L			TB1-12C K13-2	8 164A			.15 .25	NO YES		48 45	
A 611R			TB1-11A K13-6	8 164A			.15 .25	NO YES		48 45	
A 612	11				3.25 2.25	3.00 2.00			E,7 A,4	63 59, 58, 63	
A 612B	1		E22 SHLD A612	170			.25 .25	NO NO			
A 612L			J12-C TB1-12B	113 8			.25 .15	NO NO		48	
A 612R			J12-A TB1-11B	113 8			.25 .15	NO NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 613	11				3.25 2.25	3.00 2.00			B,7 A,4	63 59, 58, 63	
A 613B	1		E22 SHLD A613	170			.25 .25	NO NO			
A 613L			J5-C* TB1-12B	92 7			.25 .15	NO NO		48	
A 613R			J5-P* TB1-11C	92 7			.25 .15	NO NO		48	
A 614	11				3.25 3.25	3.00 3.00			A,4 B,7	59, 58, 63 63	
A 614A	1		SHLD A614 E29	193			.25 .25	NO NO			
A 614L			K13-3 J1-S	164A 66			.25 .25	YES NO		45	
A 614R			K13-5 J1-R	164A 86			.25 .25	YES NO		45	
A 615	11				3.25 3.25	3.00 3.00			A,4 B,7	59, 58, 63 63	
A 615A	1		SHLD A615 E29	193			.25 .25	NO NO			
A 615L			K13-3 J14-B*	164A 111			.25 .25	YES NO			
A 615R			K13-5 J14-A*	164A 111			.25 .25	YES NO			

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SCALE-NONE	REV LTR E	SHEET 130 OF 173

MIL 2084 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 616	11				3.25 3.25	3.00 3.00				B,7 A,4	63 59, 58, 63	
A 616B	1		E28 SHLD A616	192				.25 .25	NO NO			
A 616L			K13-1 J14-C	164A 111				.25 .25	YES NO		45	
A 616R			K13-7 J14-A	164A 111				.25 .25	YES NO		45	
A 617	10				3.25 3.25	3.00 3.00				A,4 B,7	57, 56, 63 63	
A 617A	1		SHLD A617 E23	166				.25 .25	NO NO			
A 617L			J1-U K13-10	66 164A				.25 .25	NO YES		45	
A 617R			J1-T K13-12	36 164A				.25 .25	NO YES		45	
A 618	10				3.25 3.25	3.00 3.00				A,4 B,7	57, 56, 63 63	
A 618A	1		SHLD A618 E29	193				.25 .25	NO NO			
A 618L			K13-8 J12-B*	164A 113				.25 .25	YES NO		45	
A 618R			K13-14 J12-A*	164A 113				.25 .25	YES NO		45	

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SCALE - NONE	REV LTR E	SHEET 131 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 619	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 619A	1		SHLD A619 E29	193				.25 .25	NO NO			
A 619L			K13-9 J21-G3	164A 84				.25 .20	YES NO		45 46	
A 619R			K13-13 J21-F3	164A 84				.25 .20	YES NO		45 46	
A 620	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 620A	1		SHLD A620 E22	170				.25 .25	NO NO			
A 620L			J21-G3 J13-V	84 91				.20 .25	NO NO			
A 620R			J21-F3 J13-U	84 91				.20 .25	NO NO			
A 621	2		T81-12D J22-K2	8 53				.15 .20	NO NC		48 46	
A 622	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 622A	1		SHLD A622 E25	168				.25 .25	NO NO			
A 622L			J32-NN TB2-55C	90 74				.25 .15	NO NO		49	

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SCALE - NONE	REV LTR E	SHEET 132 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 622R			J32-MM T62-55A	90 74				.25 .15	NO NO		49	
A 623	8											
A 623L			TB2-55C J30-A8	73 75				.15 .25	NO YES		49 47	
A 623R			TB2-55A J30-A7	73 75				.15 .25	NO YES		49 47	
A 624	10				2.25 1.50	2.00 1.25				A,5 B,7	57, 56, 63 63	
A 624A	1		SHLD A624 TB2-55D	74				.25 .15	NO NO		49	
A 624L			J30-C3 TB5-19	75 211				.25 .25	YES YES		47	
A 624R			J30-C4 TB5-20	75 210				.25 .25	YES YES		47	
A 625	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 625B	1		TB5-21 SHLD A625	209				.25	NO			
A 625E			J6-K1 TB5-23	108 207				.15 .25	NO YES		40	
A 625X			J6-K2 SHLD A625	108								

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MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 626	1		TB5-21 TB2-55D	209 73				.25 .15	YES NO		49	
A 627	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	
A 627A	1		SHLD A627 J48	102				.25 .25	NO YES			
A 627B	1		TB5-21 SHLD A627	209				.25 .25	YES NO			
A 627E			J47 TB5-22	102 208				.25 .25	YES YES			
A 628	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 628A	1		SHLD A628 E9	158				.25 .25	NO NO			
A 628L			J22-F4 TB5-1	83 197				.20	NO		46	
A 628R			J22-L4 TB5-2	83 198				.20 .25	NO YES		46	
A 629	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 629B	1		TB5-3 SHLD A629	199				.25 .25	YES NO			
A 629E			J8-D1 TB5-5	94 201				.15 .25	NO YES		40	

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MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 629X			J8-D2 SHLD A629	94								
A 630	1		TB5-3 E10	199 162				.25 .25	YES NO			
A 631	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 631A	1		SHLD A631 E9	168				.25 .25	NO NO			
A 631L			J22-F5 TB5-7	83 202				.20 .25	NO YES		46	
A 631R			J22-D5 TB5-8	83 203				.20 .25	NO YES		46	
A 632	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 632B	1		TB5-9 SHLD A632	204				.25 .25	YES NO			
A 632E			J8-C1 TB5-11	94 206				.15 .25	NO YES		40	
A 632X			J8-C2 SHLD A632	94								
A 633	1		TB5-9 E10	204 162				.25 .25	YES NO			
A 634	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 634A	1		SHLD A634 J42	98				.25 .25	NO YES			
A 634B	1		TB5-9 SHLD A634	204				.25 .25	YES NO			
A 634E			J41 TB5-10	96 206				.25 .25	YES YES			
A 635	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 635A	1		SHLD A635 E9	166				.25 .25	NO NO			
A 635L			J22-F6 TB5-13	83 216				.20 .25	NO YES		46	
A 635R			J22-D6 TB5-14	83 215				.20 .25	NO YES		46	
A 636	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 636B	1		TB5-15 SHLD A636	214				.25 .25	YES NO			
A 636E			J8-B1 TB5-17	94 212				.15 .25	NO YES		40	
A 636X			J6-B2 SHLD A636	94								
A 637	1		TB5-15 E10	214 162				.25 .25	YES NO			

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MIL 2084 4 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 638	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	
A 638A	1		SHLD A638 J44	98				.25 .25	NO YES			
A 638B	1		TB5-15 SHLD A638	214				.25 .25	YES NO			
A 638E			J43 TB5-16	98 213				.25 .25	YES YES			
A 639	1		J21-N3 TB1-26A	84 17				.20 .15	NO NO		46 49	
A 640	2		TB1-26A J22-P4	16 83				.15 .20	NO NO		48 46	
A 641	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 641B	1		TB1-28D SHLD A641	18				.15 .25	NO NO		49	
A 641E			J10-D1 TB1-26B	97 18				.15 .15	NO NO		40 49	
A 641X			J10-D2 SHLD A641	97								
A 642	5				2.25 1.50	2.00 1.25				A,4 F,7	53, 52, 63 63	
A 642A	1		SHLD A642 E21	107				.25 .25	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 642W			TB1-26B J27-R3	17 78				.15 .20	NO NO		49 46	
A 643	2		TB1-28B J22-R2	17 83				.15 .20	NO NO		48 46	
A 644	2		TB1-28C J22-R3	17 83				.15 .20	NO NO		48 46	
A 645	2		E9 TB1-26A	168 17				.25 .15	NO NO		48	
A 646	2		E10 TB1-28A	162 18				.25 .15	NO NO		48	
A 647	2		TB1-14B TB1-26B	10 18				.15 .15	NO NO		48 48	
A 648	2		TB1-28C TB3-18L	18 160				.15 .25	NO NO		48 50	
A 649	2		TB1-28D TB3-18J	17 162				.15 .25	NO NO		48 50	
A 650	1		J22-R3 J22-R4	83 83				.20 .20	NO NO		46	
A 651	2		TB1-25D TB1-27A	15 17				.15 .15	NO NO		48 48	
A 652	2		TB1-18C TB1-27D	11 17				.15 .15	NO NO		48 48	
A 653	2		TB1-27B J22-R4	17 83				.15 .20	NO NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 684	2		E19 TB3-14B	172 153				.25 .25	NO NO		48	
A 685	2		E20 TB3-14C	169 126				.25 .15	NO NO		48	
A 686	2		E21 TB3-14C	167 153				.25 .15	NO NO		48	
A 687	2		E22 TB3-14D	170 126				.25 .15	NO NO		48	
A 688	2		E23 TB3-14D	166 153				.25 .15	NO NO		48	
A 689	2		E24 TB3-15A	165 125				.25 .15	NO NO		48	
A 690	2		E25 TB3-15A	168 154				.25 .15	NO NO		48	
A 691	2		E26 TB3-15B	171 154				.25 .15	NO NO		48	
A 692	2		E27 TB3-15C	169 125				.25 .15	NO NO		48	
A 693	2		E28 TB3-15C	172 154				.25 .15	NO NO		48	
A 694	2		E29 TB3-15D	173 154				.25 .15	NO NO		48	
A 695	2		E30 TB3-15D	175 125				.25 .15	NO NO		48	

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SCALE - NONE	REV LTR E	SHEET 143 OF 173

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 696	15				3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A 696A	1		SHLD A696 J18-U•	96				.25 .25	NO NO			
A 696B	1		J27-C9 SHLD A696	78				.25 .25	YES NO		47	
A 696L			J18-S• J27-F9	96 78				.25 .25	NO YES		47	
A 696R			J18-R• J27-C9	96 78				.25 .25	NO YES		47	
A 696Y			J18-T• J27-D9	96 78				.25 .25	NO YES			
A 697	15				3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A 697A	1		SHLD A697 J19-G•	106				.25 .25	NO NO			
A 697B	1		J27-A7 SHLD A697	78				.25 .25	YES NO		47	
A 697L			J19-E• J27-A8	106 78				.25 .25	NO YES		47	
A 697R			J19-D• J27-A6	106 78				.25 .25	NO YES		47	
A 697Y			J19-F• J27-A7	106 78				.25 .25	NO YES			

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SCALE - NONE	REV LTR E	SHEET 144 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 698	13											
A 698L			J27-K4 TB2-5C	78 39				.20 .15	NO NO		46 49	
A 698R			J27-G4 TB2-5A	78 39				.20 .15	NO NO		46 49	
A 698Y			J27-H4 TB2-6A	78 39				.20 .15	NO NO		46 49	
A 699	13											
A 699L			TB2-5D J28-K4	39 77				.15 .20	NO NO		49 46	
A 699R			TB2-5B J28-G4	39 77				.15 .20	NO NO		49 46	
A 699Y			TB2-6B J28-H4	39 77				.15 .20	NO NO		49 46	
A 700	7				.52 2.25	.25 2.00				3,10 A,5	41, 42, 63 53, 52, 63	
A 700E	1		TB2-6A SHLD A700	40				.15 .25	NO NO		49	
A 700E			J7-K1 TB2-5A	95 40				.15 .15	NO NO		40 49	
A 700X			J7-K2 SHLD A700	95								

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 701	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 701B	1		TB2-6B SHLD A701	40				.15 .25	NO NO		49	
A 701E			J7-H1 TB2-5C	95 40				.15 .15	NO NO		40 49	
A 701X			J7-H2 SHLD A701	95								
A 702	13											
A 702L			J27-K6 TB2-7C	78 41				.20 .15	NO NO		46 49	
A 702R			J27-G6 TB2-7A	78 41				.20 .15	NO NO		46 49	
A 702Y			J27-H6 TB2-6C	78 41				.20 .15	NO NO		46 49	
A 703	13											
A 703L			J28-K6 TB2-7D	77 41				.20 .15	NO NO		46 49	
A 703R			J28-G6 TB2-7B	77 41				.20 .15	NO NO		46 49	
A 703Y			J28-H6 TB2-6D	77 41				.20 .15	NO NO		46 49	

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MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 729	2		K1-3	88A				.25	YES		44	
			K4-8	88A				.25	YES		44	
A 730	2		K4-8	88A				.25	YES			
			J27-N5	78				.20	NO		46	
A 731	2		J27-N6	78				.20	NO		46	
			K2-8	88A				.25	YES		44	
A 732	2		K2-3	88A				.25	YES		44	
			J27-M5	78				.20	NO		46	
A 733	2		K2-8	88A				.25	YES			
			K4-3	88A				.25	YES		44	
A 734	2		K4-3	89A				.25	YES			
			K3-4	88A				.25	YES		44	
A 735	2		K3-7	86A				.25	YES		44	
			J27-M6	78				.20	NO		46	
A 736	2		J27-H2	78				.20	NO		46	
			K1-7	88A				.25	YES		44	
A 737	2		K1-7	88A				.25	YES			
			K5-e	88A				.25	YES		44	
A 738	2		K5-3	86A				.25	YES		44	
			J27-G2	78				.20	NO		46	
A 739	2		K1-4	88A				.25	YES		44	
			J27-H1	78				.20	NO		46	
A 740	2		K6-6	88A				.25	YES		44	
			K6-1	88A				.25	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 741	1		J5-X*	92				.25	NO			
			K4-5	88A				.25	YES		44	
A 742	1		K4-1	88A				.25	YES		44	
			K6-4	88A				.25	YES		44	
A 743	1		J5-Y*	92				.25	NO			
			K6-6	88A				.25	YES			
A 744	1		J5-Z*	92				.25	NC			
			K3-1	88A				.25	YES		44	
A 745	1		K4-5	88A				.25	YES			
			K3-5	88A				.25	YES			
A 746	11				3.25	3.00				E,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 746B	1		E15	177				.25	NO			
			SHLD A746					.25	NO			
A 746L			J2-W	87				.25	NO			
			J27-N1	78				.20	NO		46	
A 746R			J2-V	87				.25	NO			
			J27-P1	78				.20	NO		46	
A 747	2		J2-K	87				.25	NO			
			J27-M2	78				.20	NO		46	
A 748	1		J12-F	113				.25	NO			
			J27-D6	78				.25	YES		47	
A 749	1		J12-G	113				.25	NO			
			J27-B7	78				.25	YES		47	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 750	1		J27-M3	78				.20	NO		46	
			J22-F3	83				.20	NC		46	
A 751	1		J22-F3	83				.20	NO			
			J12-C*	113				.25	NO			
A 752	1		J11-L	114				.25	NO			
			J27-L3	78				.20	NO		46	
A 753	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 753A	1		SHLD A753					.25	NO			
			E26	191				.25	NO			
A 753L			J5-T	92				.25	NO			
			TB2-8B	42				.15	NC		48	
A 753R			J5-S	92				.25	NO			
			TB2-8A	42				.15	NC		48	
A 754	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 754B	1		E15	177				.25	NO			
			SHLD A754					.25	NO			
A 754L			J2-C*	87				.25	NO			
			TB2-8B	41				.15	NO		48	
A 754R			J2-F*	87				.25	NC			
			TB2-10C	41				.15	NO		48	
A 755	9											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.&AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 755L			TB2-10D	41				.15	NO		48	
			J27-P4	78				.20	NO		46	
A 755R			TB2-8A	41				.15	NO		48	
			J27-R4	78				.20	NO		46	
A 757	1		J12-P*	113				.25	NO			
			J27-P5	78				.20	NO		46	
A 758	1		J14-S	111				.25	NO			
			J27-P6	76				.20	NO		46	
A 759	2		J27-R1	78				.20	NO		46	
			J21-S3	84				.20	NO		46	
A 760	2		J14-PP	111				.25	NO			
			J27-T3	78				.20	NO		46	
A 761	1		J27-T3	78				.20	NO			
			J27-T4	78				.20	NO		46	
A 762	9											
A 762L			J22-N6	83				.20	NO			
			TB1-21B	13				.15	NO		48	
A 762R			J22-P6	83				.20	NO		46	
			TB1-20B	13				.15	NO		48	
A 763	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 763A	1		SHLD A763					.25	NO			
			E21	167				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 763L			TB1-21A	13				.15	NO		49	
			J27-N3	78				.20	NO		46	
A 763R			TB1-20A	13				.15	NO		49	
			J27-P3	78				.20	NO		46	
A 764	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 764A	1		SHLD A764					.25	NO			
			E21	167				.25	NO			
A 764L			TB1-21B	14				.15	NO		49	
			J19-L	96				.25	NO			
A 764R			TB1-20B	14				.15	NO		49	
			J18-K	96				.25	NO			
A 765	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 765A	1		SHLD A765					.25	NO			
			E21	167				.25	NO			
A 765L			TB1-21C	14				.15	NO		49	
			J19-L	106				.25	NO			
A 765R			TB1-20C	14				.15	NO		49	
			J19-K	106				.25	NO			
A 766	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 766A	1		SHLD A766					.25	NO			
			E21	167				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 766L			TB1-21D	14				.15	NO		49	
			J16-JJ	112				.25	NO			
A 766R			TB1-20D	14				.15	NO		49	
			J16-HH	112				.25	NO			
A 767	14											
A 767L			J27-L5	78				.20	NO		46	
			TB2-9C	44				.15	NO		48	
A 767R			J27-T5	78				.20	NO		46	
			TB2-9A	44				.15	NO		48	
A 767Y			J27-L4	78				.20	NO		46	
			TB2-10A	44				.15	NO		48	
A 768	14											
A 768L			TB2-9C	43				.15	NO		48	
			J23-S2	82				.20	NO		46	
A 768R			TB2-9B	43				.15	NO		48	
			J23-S4	82				.20	NO		46	
A 768Y			TB2-10B	43				.15	NO		48	
			J23-R2	82				.20	NO		46	
A 769	14											
A 769L			TB2-9C	43				.15	NO		48	
			J24-S1	61				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 769R			TB2-9A	43				.15	NO		48	
			J24-S4	61				.20	NO		46	
A 769Y			TB2-10A	43				.15	NO		48	
			J24-R1	61				.20	NO		46	
A 770	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 770A	1		SHLD A770					.25	NO			
			E25	188				.25	NO			
A 770L			J32-P	90				.25	NO			
			J28-B1	77				.25	YES		47	
A 770R			J32-R	90				.25	NO			
			J26-A1	77				.25	YES		47	
A 771	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 771A	1		SHLD A771					.25	NO			
			E13	179				.25	NO			
A 771L			J28-B1	77				.25	YES			
			J18-E*	96				.25	NO			
A 771R			J28-A1	77				.25	YES			
			J18-F*	96				.25	NO			
A 772	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 772A	1		SHLD A772					.25	NO			
			J32-Z*	90				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 772E	1		TB2-14A	46				.15	NO		49	
			SHLD A772					.25	NO			
A 772L			J32-L	90				.25	NO			
			TB2-15A	46				.15	NO		49	
A 772R			J32-K	90				.25	NO			
			TB2-14B	46				.15	NO		49	
A 773	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 773A	1		SHLD A773					.25	NO			
			J18-AA	96				.25	NO			
A 773B	1		TB2-14C	46				.15	NO		49	
			SHLD A773					.25	NO			
A 773L			J18-I*	96				.25	NO			
			TB2-15B	46				.15	NO		49	
A 773R			J18-J*	96				.25	NO			
			TB2-14D	46				.15	NO		49	
A 774	8											
A 774L			TB2-15A	45				.15	NO		49	
			J28-A3	77				.25	YES		47	
A 774R			TB2-14B	45				.15	NO		49	
			J28-A2	77				.25	YES		47	
A 775	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 775A	1		SHLD A775 J32-J	 90				.25 .25	NO NO			
A 775B	1		J28-B7 SHLD A775	77				.25 .25	YES NO		47	
A 775E			J32-H J28-A7	90 77				.25 .25	NO YES		47	
A 776	9											
A 776L			J29-G6 J28-G1	76 77				.20 .20	NO NO		46 46	
A 776R			J29-G5 J28-G2	76 77				.20 .20	NO NO		46 46	
A 777	16				3.25 2.25	3.00 2.00				B,7 A,4	62 60, 61, 62	
A 777B	1		E14 SHLD A777	178				.25 .25	NO NO			
A 777L			J32-F TB2-16B	90 48				.25 .15	NO NO		48	
A 777R			J32-E TB2-16A	90 48				.25 .15	NO NO		48	
A 777Y			J32-C TB2-16D	90 46				.25 .15	NO NO		48	
A 778	9											

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 778L			TB2-16D J28-T5	47 77				.15 .20	NO NO		48 46	
A 778R			TB2-16A J28-S5	47 77				.15 .20	NO NO		48 46	
A 780	1.		J28-M3 TB2-17A	77 47				.20 .15	NO NO		46 49	
A 781	1		J28-M4 TB2-17B	77 47				.20 .15	NO NO		46 49	
A 782	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 782A	1		SHLD A782 E14	 178				.25 .25	NO NO			
A 782L			TB2-17C J16-F	46 112				.15 .25	NO NO		49	
A 782R			TB2-17A J16-E	48 112				.15 .25	NO NO		49	
A 783	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 783A	1		SHLD A783 E14	 178				.25 .25	NO NO			
A 783L			TB2-17D J16-K	48 112				.15 .25	NO NO		49	
A 783R			TB2-17B J16-J	48 112				.15 .25	NO NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 784	2		TB2-19D TB2-18D	49 49				.15 .15	NO NO		48 48	
A 785	1		J28-M1 TB2-18A	77 49				.20 .15	NO NO		46 49	
A 786	1		J28-M2 TB2-18B	77 49				.20 .15	NO NO		46 49	
A 787	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 787A	1		SHLD A787 E14	 178				.25 .25	NO NO			
A 787L			TB2-18C J16-K•	50 112				.15 .25	NO NO		49	
A 787R			TB2-18A J16-J•	50 112				.15 .25	NO NO		49	
A 788	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 788A	1		SHLD A788 E14	 178				.25 .25	NO NO			
A 788L			TB2-18D J16-H•	50 112				.15 .25	NO NO		49	
A 788R			TB2-18B J16-G•	50 112				.15 .25	NO NO		49	
A 789	1		J28-M5 TB2-19A	77 49				.20 .15	NO NO		46 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 790	1		J28-M6 TB2-19B	77 49				.20 .15	NO NO		46 49	
A 791	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 791A	1		SHLD A791 E14	 178				.25 .25	NO NO			
A 791L			TB2-19C J16-D•	50 112				.15 .25	NO NO		49	
A 791R			TB2-19A J16-C•	50 112				.15 .25	NO NO		49	
A 792	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 792A	1		SHLD A792 E14	 178				.25 .25	NO NO			
A 792L			TB2-19D J16-D	50 112				.15 .25	NO NO		49	
A 792R			TB2-19B J16-C	50 112				.15 .25	NO NO		49	
A 793	10				3.25 2.25	3.00 2.00				A,5 A,5	57, 56, 63 57, 56, 63	
A 793A	1		SHLD A793 J32-Y•	 90				.25 .25	NO NO			
A 793B	1		TB2-20A SHLD A793	50				.15 .25	NO NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 793L			J32-E*	90				.25	NO			
			T82-21A	52				.15	NO		49	
A 793R			J32-F*	90				.25	NO			
			T82-20B	50				.15	NO		49	
A 794	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				A,5	57, 56, 63	
A 794A	1		SHLD A794					.25	NO			
			T82-20C	50				.15	NO		49	
A 794B	1		J19-DD	106				.25	NO			
			SHLD A794					.25	NO			
A 794L			T82-21B	50				.15	NO		49	
			J19-G*	106				.25	NO			
A 794R			T82-20D	50				.15	NO		49	
			J19-P*	106				.25	NO			
A 795	8											
A 795L			T82-21A	49				.15	NO		49	
			J28-C2	77				.25	YES		47	
A 795R			T32-20B	49				.15	NO		49	
			J28-C1	77				.25	YES		47	
A 796	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 796A	1		SHLD A796					.25	NO			
			J32-C*	90				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 796B	1		J28-B9	77				.25	YES		47	
			SHLD A796					.25	NO			
A 796E			J32-B*	90				.25	NO			
			J28-A9	77				.25	YES		47	
A 797	9											
A 797L			J29-H6	76				.20	NO		46	
			J28-H1	77				.20	NO		46	
A 797R			J29-K6	76				.20	NO		46	
			J28-K1	77				.20	NO		46	
A 798	9											
A 798L			J28-T6	77				.20	NO		46	
			TB2-22D	51				.15	NO		48	
A 798R			J28-S6	77				.20	NO		46	
			TB2-22A	51				.15	NO		48	
A 799	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 799A	1		SHLD A799					.25	NO			
			E14	178				.25	NO			
A 799L			TB2-22B	52				.15	NO		48	
			J32-W	90				.25	NO			
A 799R			TB2-22A	52				.15	NO		48	
			J32-V	90				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 799Y			TB2-22D	52				.15	NO		48	
			J32-U	90				.25	NO			
A 801	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 801A	1		SHLD A801					.25	NO			
			J31-F*	89				.25	NO			
A 801B	1		J28-D5	77				.25	YES		47	
			SHLD A801					.25	NO			
A 801L			J31-C*	89				.25	NO			
			J28-C5	77				.25	YES		47	
A 801R			J31-E*	89				.25	NO			
			J28-D5	77				.25	YES			
A 802	9											
A 802L			J28-T4	77				.20	NO		46	
			TB2-23D	51				.15	NO		48	
A 802R			J28-S4	77				.20	NO		46	
			TB2-23A	51				.15	NO		48	
A 804	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 804A	1		SHLD A804					.25	NO			
			E14	178				.25	NO			
A 804L			TB2-23B	52				.15	NO		48	
			J31-V	89				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 804R			TB2-23A	52				.15	NO		48	
			J31-U	89				.25	NO			
A 804Y			TB2-23D	52				.15	NO		48	
			J31-T	89				.25	NO			
A 805	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 805A	1		SHLD A805					.25	NO			
			J31-C*	89				.25	NO			
A 805B	1		J26-B5	77				.25	YES		47	
			SHLD A805					.25	NO			
A 805E			J31-B*	89				.25	NO			
			J28-A5	77				.25	YES		47	
A 806	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 806A	1		SHLD A806					.25	NO			
			E13	179				.25	NO			
A 806L			J28-D4	77				.25	YES		47	
			J31-J	89				.25	NO			
A 806R			J28-D3	77				.25	YES		47	
			J31-K	89				.25	NO			
A 807	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 807A	1		SHLD A807					.25	NO			
			E13	179				.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 166 OF 173

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 807L			J28-F5 J31-H	77 89				.25 .25	YES NO		47	
A 807R			J28-F4 J31-G	77 89				.25 .25	YES NO		47	
A 808	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 808A	1		SHLD A808 E25	188				.25 .25	NO NO			
A 808L			J32-J* J28-F1	90 77				.25 .25	NO YES		47	
A 808R			J32-I* J28-D1	90 77				.25 .25	NO YES		47	
A 809	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 809A	1		SHLD A809 E13	179				.25 .25	NO NO			
A 809L			J28-F1 J19-S	77 106				.25 .25	YES NO			
A 809R			J28-D1 J19-T	77 106				.25 .25	YES NO			
A 810	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 810A	1		SHLD A810 E25	188				.25 .25	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 167 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 810L			J32-M* J28-F3	90 77				.25 .25	NO YES		47	
A 810R			J32-K* J28-F2	90 77				.25 .25	NO YES		47	
A 811	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 811A	1		SHLD A811 E13	179				.25 .25	NO NO			
A 811L			J28-F3 J19-P	77 106				.25 .25	YES NO			
A 811R			J28-F2 J19-R	77 106				.25 .25	YES NO			
A 812	8											
A 812L			J17-R J28-P3	109 77				.25 .20	NO NO		46	
A 812R			J17-S J28-P1	109 77				.25 .20	NO NO		46	
A 813	1		J17-R* J28-P2	109 77				.25 .20	NO NO		46	
A 814	7				3.25 2.25	3.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 814A	1		SHLD A814 J46	102				.25 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 168 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 814B	1		TB5-3 SHLD A814	199				.25 .25	YES NO			
A 814E			J45 TB5-4	102 200				.25 .25	YES YES			
A 815	2		TB1-6C TB3-18F	4 162				.15 .25	NO NO		48 50	
A 816	2		J3-J* J12-N*	85 113				.25 .25	NO NO			
A 817	2		E31 J26-B7	163 79				.25 .25	NO YES		47	
A 818	1		J12-K TB2-42B	113 66				.25 .15	NO NO		49	
A 819	2		TB2-16C TB2-17D	49 47				.15 .15	NO NO		48 48	
A 820	1		J17-T J17-U	109 109				.25 .25	NO NO			
A 821	14											
A 821L			K14-3 J14-T	164A 111				.25 .25	YES NO		45	
A 821R			K14-9 J14-V	164A 111				.25 .25	YES NO		45	
A 821Y			K14-6 J14-U	164A 111				.25 .25	YES NO		45	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 169 OF 173

MIL 2066 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 822	10				3.25 3.25	3.00 3.00				A,5 B,7	57, 56, 63 63	
A 822A	1		SHLD A822 J32-Z	90				.25 .25	NO NO			
A 822L			J32-Y J16-Z	90 112				.25 .25	NO NO			
A 822R			J32-X J16-Y	90 112				.25 .25	NO NO			
A 823	1		J32-Z TB3-17Y	90 115				.25 .25	NO NO		50	
A 824	2		E32 J5-U	91D 92				.25 .25	NO NO			
A 825	2		E33 J5-V	110A 92				.25 .25	NO NO			
A 826	2		E34 J5-W	91C 92				.25 .25	NO NO			
A 827	2		E35 J5-X	110B 92				.25 .25	NO NO			
A 828	2		E36 J5-Y	91B 92				.25 .25	NO NO			
A 829	2		E37 J5-Z	91A 92				.25 .25	NO NO			
A 830	14											

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE-NONE	REV LTR E	SHEET 170 OF 173

MIL 2066 4-63

WIRING HARNESS A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 830L			TB2-9D J13-F	44 91			.15 .25		NO NO		48	
A 830R			TB2-9E J13-C	44 91			.15 .25		NO NO		48	
A 830Y			TB2-10B J13-E	44 91			.15 .25		NO NO		48	
A 831	2		J19-C* TB2-38B	106 62			.25 .15		NO NO		48	
A 832	2		TB2-38D J29-N1	61 76			.15 .20		NO NO		46	
A 833	2		J19-G* TB2-39B	96 64			.25 .15		NO NO		48	
A 834	2		TB2-39D J29-N2	63 76			.15 .20		NO NO		46	

MIL 2064 4-63

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255	
SCALE - NONE	REV LTR E		SHEET 171 OF 17

1805282

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		
		SEE SHEET 1 & 2 FOR REVISION RECORD		

J5 REF
J14 REF
J13 REF
J16 REF
J32 REF
J12 REF
J31 REF
J11 REF
206 204 202 201 199 197
205 203 200 198
215 213 210 208
216 214 212 211 209 207

PARTIAL VIEW F-F

-Z-
KEYWAY 6 PLACES

85 2 REQD
86 8 REQD

J26 28
J25 27
J24 26
J23 25
J22 24
J21 23
J30 32
J29 31
J28 30
J27 29

75 76 77 78 79 80 3 82 83 84

73
74
88
87
14
12
75
86
85
J1 74
J3 6

PINAI TYP
.88
.12
-Y-
88A
883

TYP BREAKOUT FOR TERM NO.S 1 THRU 74.
END OF ACCESSORIES ARE TRUE POSITION ±.25 ±.12 INCH RELATIVE TO DATUM "Y".

VIEW A-A
SH 171 ZONE B-3

MARKER SLEEVE LOCATED APPROXIMATELY AS SHOWN

PARTIAL VIEW B-B

4.25 MAX
1.38
1.12

SECTION E-E

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		FRACTIONS DECIMALS ANGLES ± — ± — ± —	ACSP PN		
		DO NOT SCALE THIS DRAWING	DRAWN BY J. Ligon DATE 6 MAR 67	WIRING HARNESS A	
		MATERIAL	CHECKED J. Taylor 27 APR 67		
			APPROVAL		
			APPROVAL		
1902255 CH	1902255 CH		NASA APPROVAL	CODE IDENT NO	SIZE E 1902255
NEXT ASSY	USED ON		CONTRACT NAS 9-497	SCALE FULL	SHEET 173 OF 173
APPLICATION			MIT APPROVAL		

1902255 E

1805282

1805522

REVISIONS TLRR 17842				
SYM	ZONE	DESCRIPTION / CHG NO	DATE	APPD

SEE SHEET 1 & 2 FOR REVISION RECORD

SECTION D-D
TYP BREAKOUTS FOR TERM NOS 115 THRU 164 END OF ACCESSORIES ARE TRUE POSITION +.25,-.12 INCH RELATIVE TO DATUM-Z+.

SECTION C-C
TYPICAL

A (SHEET 172, ZONE B-7)

1902195-011	1902195-011	
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN
ACSP PN
DRAWN J. Capra DATE 5 MAR 65
CHECKED [illegible] DATE 27 MAR 65
APPROVAL [illegible] DATE [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL

MANNED SPACECRAFT CENTER HOUSTON TEXAS

WIRING HARNESS A

CODE IDENT NO E | SIZE E | 1902255
SCALE 1/1 | SHEET 172 OF 173

1902255 E

1805522

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 8R			TB1-39A	25				.15	NO		49	
			J25-B4	80				.25	YES		47	
A 9	8											
A 9L			TB1-39D	25				.15	NO		49	
			J25-C5	80				.25	YES		47	
A 9R			TB1-39C	25				.15	NO		49	
			J25-B5	80				.25	YES		47	
A 10	1		TB1-40A	25				.15	NO		49	
			J25-A5	80				.25	YES		47	
A 11	8											
A 11L			J25-A4	80				.25	YES		47	
			E2	187				.25	NO			
A 11R			J25-A5	80				.25	YES			
			E1	173				.25	NO			
A 12	8											
A 12L			E2	187				.25	NO			
			J26-B2	79				.25	YES		47	
A 12R			E1	173				.25	NO			
			J26-B1	79				.25	YES		47	
A 13	15				2.25 3.25	2.00 3.00				B,7 A,4	63 59, 65, 63	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 15 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13B	1		E27	189				.25	NO			
			SHLD A13					.25	NO			
A 13L			J26-A1	79				.25	YES		47	
			J13-R*	91				.25	NO			
A 13R			J26-B1	79				.25	YES			
			J13-S*	91				.25	NO			
A 13Y			J26-A2	79				.25	YES		47	
			J13-T*	91				.25	NO			
A 14	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 14B	1		TB1-42A	28				.15	NO		49	
			SHLD A14					.25	NO			
A 14E			J10-G1	97				.15	NO		40	
			TB1-41A	28				.15	NO		49	
A 14X			J10-G2	97								
			SHLD A14									
A 15	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 15B	1		TB1-42B	28				.15	NO		49	
			SHLD A15					.25	NO			
A 15E			J10-J1	97				.15	NO		40	
			TB1-41B	28				.15	NO		49	
A 15X			J10-J2	97								
			SHLD A15									

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 16 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 16B	1		TB1-42C	28				.15	NO		49	
			SHLD A16					.25	NO			
A 16E			J9-C1	107				.15	NO		40	
			TB1-41C	28				.15	NO		49	
A 16X			J9-C2	107								
			SHLD A16									
A 17	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 17B	1		TB1-42D	28				.15	NO		49	
			SHLD A17					.25	NO			
A 17E			J9-D1	107				.15	NO		40	
			TB1-41D	28				.15	NO		49	
A 17X			J9-D2	107								
			SHLD A17									
A 18	8											
A 18L			TB1-41B	27				.15	NO		49	
			J25-C6	80				.25	YES		47	
A 18R			TB1-41A	27				.15	NO		49	
			J25-B6	80				.25	YES		47	
A 19	1		TB1-42A	27				.15	NO		49	
			J25-A7	80				.25	YES		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 17 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20	8											
A 20L			J25-A6	80				.25	YES		47	
			E4	184				.25	NO			
A 20R			J25-A7	80				.25	YES			
			E3	174				.25	NO			
A 21	8											
A 21L			E4	184				.25	NO			
			J26-B4	79				.25	YES		47	
A 21R			E3	174				.25	NO			
			J26-B3	79				.25	YES		47	
A 22	15				2.25 3.25	2.00 3.00				B,7 A,4	63 59, 65, 63	
A 22B	1		E27	189				.25	NO			
			SHLD A22					.25	NO			
A 22L			J26-A3	79				.25	YES		47	
			J13-BB	91				.25	NO			
A 22R			J26-B3	79				.25	YES			
			J13-CC	91				.25	NO			
A 22Y			J26-A4	79				.25	YES		47	
			J13-DD	91				.25	NO			
A 23	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 18 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	1		TB1-44A SHLD A23	28				.15 .25	NO NO		49	
A 23E			J10-K1 TB1-43A	97 28				.15 .15	NO NO		40 49	
A 23X			J10-K2 SHLD A23	97								
A 24	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 24B	1		TB1-44B SHLD A24	28				.15 .25	NO NO		49	
A 24E			J10-H1 TB1-43B	97 28				.15 .15	NO NO		40 49	
A 24X			J10-H2 SHLD A24	97								
A 25	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 25B	1		TB1-44C SHLD A25	28				.15 .25	NO NO		49	
A 25E			J9-E1 TB1-43C	107 28				.15 .15	NO NO		40 49	
A 25X			J9-E2 SHLD A25	107								
A 26	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 19 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26B	1		TB1-44D SHLD A26	28				.15 .25	NO NO		49	
A 26E			J9-F1 TB1-43D	107 28				.15 .15	NO NO		40 49	
A 26X			J9-F2 SHLD A26	107								
A 27	8											
A 27L			TB1-43B J25-C8	27 80				.15 .25	NO YES		49 47	
A 27R			TB1-43A J25-B8	27 80				.15 .25	NO YES		49 47	
A 28	8											
A 28L			TB1-41D J25-C7	27 80				.15 .25	NO YES		49 47	
A 28R			TB1-41C J25-B7	27 80				.15 .25	NO YES		49 47	
A 29	8											
A 29L			TB1-43D J25-C9	27 80				.15 .25	NO YES		49 47	
A 29R			TB1-43C J25-B9	27 80				.15 .25	NO YES		49 47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 20 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30	1		TB1-44A J25-A9	29 60				.15 .25	NO YES		49 47	
A 31	8											
A 31L			J25-A8 E6	80 186				.25 .25	YES NO		47	
A 31R			J25-A9 E5	80 185				.25 .25	YES NO			
A 32	8											
A 32L			E6 J26-B6	186 79				.25 .25	NO YES		47	
A 32R			E5 J26-B5	185 79				.25 .25	NO YES		47	
A 33	15				2.25 3.25	2.00 3.00				B,7 A,4	63 59, 65, 63	
A 33B	1		E27 SHLD A33	189				.25 .25	NO NO			
A 33L			J26-A5 J13-LL	79 91				.25 .25	YES NO		47	
A 33R			J26-B5 J13-MM	79 91				.25 .25	YES NO			
A 33Y			J26-A6 J13-NN	79 91				.25 .25	YES NO		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 21 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34	1		J14-B8 J25-H4	111 80				.25 .20	NO NO		46	
A 35	1		J25-H4 J26-L1	80 79				.20 .20	NO NO		46	
A 36	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 36B	1		E20 SHLD A36	169				.25 .25	NO NO			
A 36W			J25-L4 J23-D1	80 82				.20 .20	NO NO		46 46	
A 37	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 37B	1		E20 SHLD A37	169				.25 .25	NO NO			
A 37W			J25-M4 J23-F1	80 82				.20 .20	NO NO		46 46	
A 38	5				2.25 2.25	2.00 2.00				E,7 A,4	63 53, 52, 63	
A 38B	1		E20 SHLD A38	169				.25 .25	NO NO			
A 38W			J25-L3 J23-D3	80 82				.20 .20	NO NO		46 46	
A 39	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 22 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 39B	1		E20 SHLD A39	169				.25 .25	NO NO			
A 39W			J25-M3 J23-F3	80 82				.20 .20	NO NO		46 46	
A 40	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 40B	1		E19 SHLD A40	172				.25 .25	NO NO			
A 40W			J25-L2 J24-F6	80 81				.20 .20	NO NO		46 46	
A 41	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 41B	1		E19 SHLD A41	172				.25 .25	NO NO			
A 41W			J25-M2 J24-G6	80 81				.20 .20	NO NO		46 46	
A 42	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 42B	1		TB1-46A SHLD A42	30				.15 .25	NO NO		49	
A 42E			J8-E1 TB1-45A	94 30				.15 .15	NO NO		40 49	
A 42X			J8-E2 SHLD A42	94								

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 43	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 43B	1		TB1-46B SHLD A43	30				.15 .25	NO NO		49	
A 43E			J8-F1 TB1-45B	94 30				.15 .15	NO NO		40 49	
A 43X			J8-F2 SHLD A43	94								
A 44	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 44B	1		TB1-46C SHLD A44	30				.15 .25	NO NO		49	
A 44E			J8-G1 TB1-45C	94 30				.15 .15	NO NO		40 49	
A 44X			J8-G2 SHLD A44	94								
A 45	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 45B	1		TB1-46D SHLD A45	30				.15 .25	NO NO		49	
A 45E			J8-J1 TB1-45D	94 30				.15 .15	NO NO		40 49	
A 45X			J8-J2 SHLD A45	94								

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 24 OF 173

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 46B	1		TB1-46A SHLD A46	31				.15 .25	NO NO		49	
A 46E			J8-K1 TB1-47A	94 31				.15 .15	NO NO		40 49	
A 46X			J8-K2 SHLD A46	94								
A 47	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 47B	1		TB1-46B SHLD A47	31				.15 .25	NO NO		49	
A 47E			J8-H1 TB1-47B	94 31				.15 .15	NO NO		40 49	
A 47X			J8-H2 SHLD A47	94								
A 48	8											
A 48L			TB1-45B J25-M6	29 80				.15 .20	NO NO		49 46	
A 48R			TB1-45A J25-M5	29 80				.15 .20	NO NO		49 46	
A 49	8											

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 25 OF 173

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49L			TB1-45D J25-K6	29 80				.15 .20	NO NO		49 46	
A 49R			TB1-45C J25-L6	29 80				.15 .20	NO NO		49 46	
A 50	8											
A 50L			TB1-47B J25-K4	32 80				.15 .20	NO NO		49 46	
A 50R			TB1-47A J25-K5	32 80				.15 .20	NO NO		49 46	
A 51	2		TB1-46C J25-L5	29 80				.15 .20	NO NO		48 46	
A 52	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 52A	1		SHLD A52 E23	166				.25 .25	NO NO			
A 52L			J1-Z J25-D7	86 80				.25 .25	NO YES		47	
A 52R			J1-Y J25-D8	86 80				.25 .25	NO YES		47	
A 53	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 53B	1		E19 SHLD A53	172				.25 .25	NO NO			

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 53L			J11-H*	114			.25	NO			
			J25-D7	80			.25	YES			
A 53R			J11-I*	114			.25	NO			
			J25-F7	80			.25	YES		47	
A 54	10				3.25	3.00			A,4	57, 56, 63	
					2.25	2.00			B,7	63	
A 54A	1		SHLD A54				.25	NO			
			E23	166			.25	NO			
A 54L			J1-K	86			.25	NO			
			J25-F9	80			.25	YES		47	
A 54R			J1-J	86			.25	NO			
			J25-F8	80			.25	YES		47	
A 55	10				3.25	3.00			B,7	63	
					2.25	2.00			A,4	57, 56, 63	
A 55B	1		E19	172			.25	NO			
			SHLD A55				.25	NO			
A 55L			J11-U*	114			.25	NO			
			J25-F9	80			.25	YES			
A 55R			J11-V*	114			.25	NO			
			J25-D9	80			.25	YES		47	
A 56	1		J21-L4	84			.20	NO		46	
			J22-K3	83			.20	NO		46	
A 57	1		J22-K3	83			.20	NO			
			J23-C6	82			.20	NO		46	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	1		J23-C6	82			.20	NO			
			J24-H5	81			.20	NO		46	
A 59	1		J24-H5	81			.20	NO			
			J25-K3	80			.20	NO		46	
A 60	1		J25-K3	80			.20	NO			
			TB3-2V	140			.25	NO		50	
A 61	1		J26-N4	79			.20	NO		46	
			J27-L6	78			.20	NO		46	
A 62	1		J27-L6	78			.20	NO		46	
			J28-P4	77			.20	NO		46	
A 63	1		J28-P4	77			.20	NO			
			J29-R4	76			.20	NO		46	
A 64	1		J29-R4	76			.20	NO			
			J30-M4	75			.20	NO		46	
A 65	1		J14-EE	111			.25	NO			
			J25-S1	80			.20	NO		46	
A 66	1		J25-S1	80			.20	NO			
			J26-L2	79			.20	NO		46	
A 67	1		J14-AA	111			.25	NO			
			J25-S3	80			.20	NO		46	
A 68	2		J14-J*	111			.25	NO			
			J25-B3	80			.25	YES		47	
A 69	2		J25-B3	80			.25	YES			
			E31	183			.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70	1		J14-Z*	111			.25	NO			
			J25-A3	80			.25	YES		47	
A 71	2		J12-M*	113			.25	NO			
			J25-R6	60			.20	NO		46	
A 72	9										
A 72L			J22-P5	83			.20	NO		46	
			TB1-14A	7			.15	NO		48	
A 72R			J22-N5	83			.20	NO		46	
			TB1-13A	7			.15	NO		48	
A 73	10				3.25	3.00			B,7	63	
					2.25	2.00			A,4	57, 56, 63	
A 73B	1		E21	167			.25	NO			
			SHLD A73				.25	NO			
A 73L			J12-J*	113			.25	NO			
			TB1-14A	8			.15	NO		49	
A 73R			J12-I*	113			.25	NO			
			TB1-13A	8			.15	NO		49	
A 74	10				3.25	3.00			B,7	63	
					2.25	2.00			A,4	57, 56, 63	
A 74B	1		E21	167			.25	NO			
			SHLD A74				.25	NO			
A 74L			J12-W	113			.25	NO			
			TB1-14B	7			.15	NO		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			J12-V	113			.25	NO			
			TB1-13B	7			.15	NO		49	
A 75	10				3.25	3.00			B,7	63	
					2.25	2.00			A,4	57, 56, 63	
A 75B	1		E21	167			.25	NO			
			SHLD A75				.25	NO			
A 75L			J14-G*	111			.25	NO			
			TB1-14C	8			.15	NO		49	
A 75R			J14-F*	111			.25	NO			
			TB1-13B	8			.15	NO		49	
A 76	10				2.25	2.00			B,7	63	
					2.25	2.00			A,4	57, 56, 63	
A 76B	1		E21	167			.25	NO			
			SHLD A76				.25	NO			
A 76L			J25-N5	80			.20	NO		46	
			TB1-14D	7			.15	NO		49	
A 76R			J25-N6	80			.20	NO		46	
			TB1-13C	7			.15	NO		49	
A 77	9										
A 77L			J22-P3	83			.20	NO		46	
			TB1-16A	9			.15	NO		48	
A 77R			J22-N3	83			.20	NO		46	
			TB1-15A	9			.15	NO		48	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	2		TB1-17D	11				.15	NO		48	
			J22-S4	83				.20	NO		46	
A 110	2		TB2-42B	65				.15	NO		48	
			J22-S5	83				.20	NO		46	
A 111	2		TB2-43D	65				.15	NO		48	
			J23-S6	82				.20	NO		46	
A 112	2		TB2-42A	65				.15	NO		48	
			J24-S6	81				.20	NO		46	
A 113	2		TB2-42C	65				.15	NO		48	
			J25-S2	80				.20	NO		46	
A 114	2		TB2-43A	65				.15	NO		48	
			J25-S6	80				.20	NO		46	
A 115	2		TB2-43B	65				.15	NO		48	
			J26-S2	79				.20	NO		46	
A 116	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 116A	1		SHLD A116					.25	NO			
			E24	165				.25	NO			
A 116W			J3-A	85				.25	NO			
			TB3-3D	148				.15	NO		48	
A 117	5				2.25	2.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 117A	1		SHLD A117					.25	NO			
			E30	195				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 117W			TB3-3D	131				.15	NO		49	
			J25-B1	80				.25	YES		47	
A 118	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 118A	1		SHLD A118					.25	NO			
			E24	165				.25	NO			
A 118W			J3-B	85				.25	NO			
			TB3-3B	148				.15	NO		48	
A 119	5				2.25	2.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 119A	1		SHLD A119					.25	NO			
			E30	195				.25	NO			
A 119W			TB3-3B	131				.15	NO		49	
			J25-A1	80				.25	YES		47	
A 120	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 120B	1		E12	196				.25	NO			
			SHLD A120					.25	NO			
A 120L			J11-FF	114				.25	NO			
			TB3-4C	148				.15	NO		49	
A 120R			J11-EE	114				.25	NO			
			TB3-3C	148				.15	NO		49	
A 121	10				3.25	3.00				B,7	63	
					2.25	2.00				A,7	57, 56, 63	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121B	1		E12	196				.25	NO			
			SHLD A121					.25	NO			
A 121L			J11-KK	114				.25	NO			
			TB3-4D	148				.15	NO		49	
A 121R			J11-JJ	114				.25	NO			
			TB3-3A	148				.15	NO		49	
A 122	2		TB3-4D	131				.15	NO		48	
			J25-R2	80				.20	NO		46	
A 123	2		TB3-18H	162				.25	NO		50	
			TB3-4A	148				.15	NO		48	
A 124	2		TB3-18Y	155				.25	NO		50	
			TB3-4B	148				.15	NO		48	
A 125	2		TB3-4A	131				.15	NO		48	
			TB3-5D	130				.15	NO		48	
A 126	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 126B	1		E12	196				.25	NO			
			SHLD A126					.25	NO			
A 126L			J11-LL	114				.25	NO			
			TB3-6D	149				.15	NO		49	
A 126R			J11-MM	114				.25	NO			
			TB3-5D	149				.15	NO		49	
A 127	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 127B	1		E12	196				.25	NO			
			SHLD A127					.25	NO			
A 127L			J11-GG	114				.25	NO			
			TB3-6C	149				.15	NO		49	
A 127R			J11-HH	114				.25	NO			
			TB3-5B	149				.15	NO		49	
A 128	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 128B	1		E12	196				.25	NO			
			SHLD A128					.25	NO			
A 128L			J11-NN	114				.25	NO			
			TB3-6B	149				.15	NO		49	
A 128R			J11-PP	114				.25	NO			
			TB3-5A	149				.15	NO		49	
A 129	19											
A 129K			J3-V	85				.25	NO			
			TB3-5A	130				.15	NO		48	
A 129L			J3-U	85				.25	NO			
			TB3-6C	130				.15	NO		48	
A 129R			J3-C	85				.25	NO			
			TB3-6B	130				.15	NO		48	
A 129Y			J3-W	85				.25	NO			
			TB3-6D	130				.15	NO		48	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 142R			J3-K	85				.25	NO			
			J21-B2	84				.20	NO			
A 143	5				2.25	2.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 143A	1		SHLD A143					.25	NO			
			E16	176				.25	NO			
A 143W			J26-M3	79				.20	NO		46	
			J22-H6	83				.20	NO		46	
A 144	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 144A	1		SHLD A144					.25	NO			
			E27	189				.25	NO			
A 144L			J13-KK	91				.25	NO			
			J26-F5	79				.25	YES		47	
A 144R			J13-JJ	91				.25	NO			
			J26-D5	79				.25	YES		47	
A 145	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 145A	1		SHLD A145					.25	NO			
			E27	189				.25	NO			
A 145L			J13-FF	91				.25	NO			
			TB1-49B	32				.15	NO		49	
A 145R			J13-EE	91				.25	NO			
			TB1-48C	32				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 146	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 146A	1		SHLD A146					.25	NO			
			E17	171				.25	NO			
A 146L			TB1-49B	31				.15	NO		49	
			J27-B2	78				.25	YES		47	
A 146R			TB1-48D	31				.15	NO		49	
			J27-A2	78				.25	YES		47	
A 147	13											
A 147L			TB1-49A	31				.15	NO		49	
			J26-D6	79				.25	YES		47	
A 147R			TB1-48A	31				.15	NO		49	
			J26-C6	79				.25	YES		47	
A 147Y			TB1-48C	31				.15	NO		49	
			J26-C5	79				.25	YES		47	
A 148	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 148A	1		SHLD A148					.25	NO			
			E17	171				.25	NO			
A 148L			TB1-49A	32				.15	NO		49	
			TB1-4D	2				.15	NO		49	
A 148R			TB1-48A	32				.15	NO		49	
			TB1-4B	2				.15	NO		49	

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MIL 3064 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 149A	1		SHLD A149					.25	NO			
			E27	189				.25	NO			
A 149L			J13-HH	91				.25	NO			
			TB1-4C	2				.15	NO		49	
A 149R			J13-GG	91				.25	NO			
			TB1-4A	2				.15	NO		49	
A 150	8											
A 150L			TB1-4C	1				.15	NO		49	
			J21-B3	84				.20	NO		46	
A 150R			TB1-4A	1				.15	NO		49	
			J21-A3	84				.20	NO		46	
A 151	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 151A	1		SHLD A151					.25	NO			
			E22	170				.25	NO			
A 151L			J21-C3	84				.20	NO		46	
			J27-A1	78				.25	YES		47	
A 151R			J21-B3	84				.20	NO			
			J27-B1	78				.25	YES		47	
A 152	5				2.25	2.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	

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MIL 3064 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 152A	1		SHLD A152					.25	NO			
			E16	176				.25	NO			
A 152W			J26-N3	79				.20	NO		46	
			J22-G6	83				.20	NO		46	
A 153	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 153A	1		SHLD A153					.25	NO			
			E28	192				.25	NO			
A 153W			J14-R*	111				.25	NO			
			J26-F2	79				.25	YES		47	
A 154	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 154A	1		SHLD A154					.25	NO			
			E28	192				.25	NO			
A 154W			J14-G*	111				.25	NO			
			J26-F4	79				.25	YES		47	
A 155	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 155A	1		SHLD A155					.25	NO			
			E28	192				.25	NO			
A 155W			J14-S*	111				.25	NO			
			J26-F6	79				.25	YES		47	
A 156	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	

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SCALE - NONE	REV LTR E	SHEET 46 OF 173

MIL 3064 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156A	1		SHLD A156					.25	NO			
			E28	192				.25	NO			
A 156W			J14-T*	111				.25	NO			
			J26-C7	79				.25	YES		47	
A 157	15				3.25	3.00				B,7	63	
					7.00	6.75				A,4	59, 65, 63	
A 157B	1		E16	176				.25	NO			
			SHLD A157					.25	NO			
A 157L			J11-K*	114				.25	NO			
			TB1-51A	34				.15	NO		A 87, 49	
A 157R			J11-J*	114				.25	NO			
			J26-R1	79			3.00	.20	NO		46	
A 157Y			J11-M*	114				.25	NO			
			J26-P1	79			3.00	.20	NO		46	
A 158	15				3.25	3.00				B,7	63	
					7.00	6.75				A,4	59, 65, 63	
A 158B	1		E16	176				.25	NO			
			SHLD A158					.25	NO			
A 158L			J12-JJ	113				.25	NO			
			TB1-51B	34				.15	NO		A 87, 49	
A 158R			J12-HH	113				.25	NO			
			J26-R3	79			3.00	.20	NO		46	
A 158Y			J12-KK	113				.25	NO			
			J26-P3	79			3.00	.20	NO		46	

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SCALE - NONE	REV LTR E	SHEET 47 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 159	15				3.25	3.00				B,7	63	
					7.00	6.75				A,4	59, 65, 63	
A 159B	1		E16	176				.25	NO			
			SHLD A159					.25	NO			
A 159L			J12-MM	113				.25	NO			
			TB1-51B	33				.15	NO		A 87, 49	
A 159R			J12-LL	113				.25	NO			
			J26-N1	79			3.00	.20	NO		46	
A 159Y			J12-NN	113				.25	NO			
			J26-N2	79			3.00	.20	NO		46	
A 160	2		TB1-51D	33				.15	NO		48	
			J26-R2	79				.20	NO		46	
A 161	2		TB1-51C	34				.15	NO		48	
			TB3-18Z	155				.25	NO		50	
A 162	2		TB1-51C	33				.15	NO		48	
			TB3-18Z	155				.25	NO		50	
A 163	2		TB1-51A	33				.15	NO		48	
			J26-P2	79				.20	NO		46	
A 164	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 164A	1		SHLD A164					.25	NO			
			E24	165				.25	NO			
A 164L			J3-F	85				.25	NO			
			J26-A9	79				.25	YES		47	

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SCALE - NONE	REV LTR E	SHEET 48 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 164R			J3-G	85				.25	NO			
			J26-A8	79				.25	YES		47	
A 165	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 165B	1		E16	176				.25	NO			
			SHLD A165					.25	NO			
A 165L			J11-K	114				.25	NO			
			J26-A9	79				.25	YES			
A 165R			J11-J	114				.25	NO			
			J26-A8	79				.25	YES			
A 165Y			J11-H	114				.25	NO			
			J26-B9	79				.25	YES		47	
A 166	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 166A	1		SHLD A166					.25	NO			
			E24	165				.25	NO			
A 166L			J3-E	85				.25	NO			
			J26-C8	79				.25	YES		47	
A 166R			J3-D	85				.25	NO			
			J26-B8	79				.25	YES		47	
A 167	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 167B	1		E16	176				.25	NO			
			SHLD A167					.25	NO			

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SCALE - NONE	REV LTR E	SHEET 49 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 167L			J11-Z*	114				.25	NO			
			J26-C8	79				.25	YES			
A 167R			J11-Y*	114				.25	NO			
			J26-B8	79				.25	YES			
A 167Y			J11-X*	114				.25	NO			
			J26-C9	79				.25	YES		47	
A 168	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 168A	1		SHLD A168					.25	NO			
			E23	166				.25	NO			
A 168L			J1-F	86				.25	NO			
			J26-D9	79				.25	YES		47	
A 168R			J1-E	86				.25	NO			
			J26-D8	79				.25	YES		47	
A 169	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 169A	1		SHLD A169					.25	NO			
			E16	176				.25	NO			
A 169L			J26-F9	79				.25	YES		47	
			J11-CC	114				.25	NO			
A 169R			J26-D9	79				.25	YES			
			J11-DD	114				.25	NO			
A 170	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 227E			J19-W*	106				.25	NO			
			J29-A6	76				.25	YES		47	
A 228	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 228A	1		SHLD A228					.25	NO			
			E12	196				.25	NO			
A 228L			J17-W	109				.25	NO			
			J29-F8	76				.25	YES		47	
A 228R			J17-V	109				.25	NO			
			J29-F9	76				.25	YES		47	
A 229	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 229A	1		SHLD A229					.25	NO			
			E30	195				.25	NO			
A 229L			J18-A*	96				.25	NO			
			J29-C9	76				.25	YES		47	
A 229R			J18-B*	96				.25	NO			
			J29-C8	76				.25	YES		47	
A 230	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 230A	1		SHLD A230					.25	NO			
			E30	195				.25	NO			
A 230L			J18-M	96				.25	NO			
			J29-K5	76				.20	NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 230R			J18-N	96				.25	NO			
			J29-K4	76				.20	NO		46	
A 231	8											
A 231L			J29-H5	76				.20	NO		46	
			J30-C8	75				.25	YES		47	
A 231R			J29-K5	76				.20	NO			
			J30-D8	75				.25	YES		47	
A 232	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 232B	1		E8	180				.25	NO			
			SHLD A232					.25	NO			
A 232L			J18-S	96				.25	NO			
			J29-P4	76				.20	NO		46	
A 232R			J18-U	96				.25	NO			
			J29-P3	76				.20	NO		46	
A 232Y			J18-T	96				.25	NO			
			J29-P5	76				.20	NO		46	
A 233	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 233A	1		SHLD A233					.25	NO			
			E30	195				.25	NO			
A 233L			J18-P	96				.25	NO			
			J29-G4	76				.20	NO		46	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233R			J18-R	96				.25	NO			
			J29-G3	76				.20	NO		46	
A 234	8											
A 234L			J29-H4	76				.20	NO		46	
			J30-C9	75				.25	YES		47	
A 234R			J29-G4	76				.20	NO			
			J30-D9	75				.25	YES		47	
A 235	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 235A	1		SHLD A235					.25	NO			
			J18-BB	96				.25	NO			
A 235B	1		J29-B7	76				.25	YES		47	
			SHLD A235					.25	NO			
A 235L			J18-N*	96				.25	NO			
			J29-B8	76				.25	YES		47	
A 235R			J18-K*	96				.25	NO			
			J29-B7	76				.25	YES			
A 236	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 236A	1		SHLD A236					.25	NO			
			J18-X*	96				.25	NO			
A 236B	1		J29-B9	76				.25	YES		47	
			SHLD A236					.25	NO			

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 236E			J18-W*	96				.25	NO			
			J29-A9	76				.25	YES		47	
A 237	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 237A	1		SHLD A237					.25	NO			
			E12	196				.25	NO			
A 237L			J17-C*	109				.25	NO			
			J29-D7	76				.25	YES		47	
A 237R			J17-B*	109				.25	NO			
			J29-D8	76				.25	YES		47	
A 238	1		J17-U*	109				.25	NO			
			J29-P6	76				.20	NO		46	
A 239	1		J29-M1	76				.20	NO		46	
			TB2-32A	57				.15	NO		49	
A 240	1		J29-M2	76				.20	NO		46	
			TB2-32B	58				.15	NO		49	
A 241	1		J29-M3	76				.20	NO		46	
			TB2-32C	58				.15	NO		49	
A 242	1		J29-M4	76				.20	NO		46	
			TB2-34A	59				.15	NO		49	
A 243	1		J29-M5	76				.20	NO		46	
			TB2-34B	59				.15	NO		49	
A 244	1		J29-M6	76				.20	NO		46	
			TB2-34C	59				.15	NO		49	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 245	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 245B	1		E8	180				.25	NO			
			SHLD A245					.25	NO			
A 245L			J16-F*	112				.25	NO			
			TB2-33A	56				.15	NO		49	
A 245R			J16-E*	112				.25	NO			
			TB2-32A	58				.15	NO		49	
A 246	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 246B	1		E8	180				.25	NO			
			SHLD A246					.25	NG			
A 246L			J16-Q*	112				.25	NO			
			TB2-33A	57				.15	NO		49	
A 246R			J16-P*	112				.25	NO			
			TB2-32B	57				.15	NO		49	
A 247	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 247B	1		E8	180				.25	NO			
			SHLD A247					.25	NO			
A 247L			J16-H	112				.25	NO			
			TB2-33B	57				.15	NO		49	
A 247R			J16-G	112				.25	NO			
			TB2-32C	57				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 248	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 248B	1		E8	180				.25	NO			
			SHLD A248					.25	NO			
A 248L			J16-B*	112				.25	NO			
			TB2-33B	60				.15	NO		49	
A 248R			J16-A*	112				.25	NO			
			TB2-34A	60				.15	NO		49	
A 249	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 249B	1		E8	180				.25	NO			
			SHLD A249					.25	NO			
A 249L			J16-S*	112				.25	NO			
			TB2-33C	60				.15	NO		49	
A 249R			J16-R*	112				.25	NO			
			TB2-34B	60				.15	NO		49	
A 250	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 250B	1		E8	180				.25	NO			
			SHLD A250					.25	NO			
A 250L			J16-N*	112				.25	NO			
			TB2-33D	60				.15	NO		49	
A 250R			J16-M*	112				.25	NO			
			TB2-34C	60				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251	8											
A 251L			J12-H*	113				.25	NO			
			J30-B4	75				.25	YES		47	
A 251R			J12-G*	113				.25	NO			
			J30-A4	75				.25	YES		47	
A 252	8											
A 252L			J30-B4	75				.25	YES			
			J2-E*	87				.25	NO			
A 252R			J30-A4	75				.25	YES			
			J2-D*	87				.25	NO			
A 253	8											
A 253L			J30-B6	75				.25	YES		47	
			J2-C*	87				.25	NO			
A 253R			J30-A6	75				.25	YES		47	
			J2-B*	87				.25	NO			
A 254	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 254A	1		SHLD A254					.25	NO			
			J32-LL	90				.25	NO			
A 254B	1		J30-B9	75				.25	YES		47	
			SHLD A254					.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 254E			J32-KK	90				.25	NO			
			J30-A9	75				.25	YES		47	
A 255	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 255B	1		E7	181				.25	NO			
			SHLD A255					.25	NO			
A 255L			J16-P	112				.25	NO			
			J30-B7	75				.25	YES		47	
A 255R			J16-N	112				.25	NO			
			J30-B8	75				.25	YES		47	
A 256	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 256A	1		SHLD A256					.25	NO			
			E25	188				.25	NO			
A 256L			J31-S*	89				.25	NO			
			J30-C7	75				.25	YES		47	
A 256R			J31-R*	89				.25	NO			
			J30-C6	75				.25	YES		47	
A 257	8											
A 257L			J17-K*	109				.25	NO			
			J30-F7	75				.25	YES		47	
A 257R			J17-J*	109				.25	NO			
			J30-F6	75				.25	YES		47	

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SCALE-NONE	REV LTR E	SHEET 74 OF 173

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 275	2		TB2-45A	67				.15	NO		48	
			J30-N4	75				.20	NO		46	
A 276	1		TB2-45B	67				.15	NO		49	
			J31-CC	89				.25	NO			
A 277	8											
A 277L			TB2-45C	68				.15	NO		49	
			J32-X*	90				.25	NO			
A 277R			TB2-45B	68				.15	NO		49	
			J32-W*	90				.25	NO			
A 278	2		TB3-17A	124				.25	NO		50	
			TB2-45C	67				.15	NO		48	
A 279	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						
A 279A	1		SHLD A279					.25	NO			
			E23	166				.25	NO			
A 279L			J1-F*	86				.25	NO			
			J11-E*	114				.25	NO			
A 279R			J1-G*	86				.25	NO			
			J11-D*	114				.25	NO			
A 280	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						
A 280A	1		SHLD A280					.25	NO			
			E23	166				.25	NO			

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SCALE - NONE	REV LTR E	SHEET 79 OF 173

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 280L			J1-N	86				.25	NO			
			J11-R*	114				.25	NO			
A 280R			J1-P	86				.25	NO			
			J11-C*	114				.25	NO			
A 281	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						
A 281A	1		SHLD A281					.25	NO			
			E23	166				.25	NO			
A 281L			J1-B*	86				.25	NO			
			J11-C*	114				.25	NO			
A 281R			J1-A*	86				.25	NO			
			J11-B*	114				.25	NO			
A 282	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						
A 282A	1		SHLD A282					.25	NO			
			E23	166				.25	NO			
A 282L			J1-M	86				.25	NO			
			J11-P*	114				.25	NO			
A 282R			J1-L	86				.25	NO			
			J11-N*	114				.25	NO			
A 283	12											
A 283K			J3-F*	85				.25	NO			
			E37	91A				.25	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 80 OF 173

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 283L			J3-G*	85				.25	NO			
			E36	91B				.25	NO			
A 283R			J3-D*	85				.25	NO			
			E36	91B				.25	NO			
A 283Y			J3-E*	85				.25	NO			
			E37	91A				.25	NO			
A 284	12											
A 284K			J3-C*	85				.25	NO			
			E34	91C				.25	NO			
A 284L			J3-B*	85				.25	NO			
			E35	110B				.25	NO			
A 284R			J3-A*	85				.25	NO			
			E35	110B				.25	NO			
A 284Y			J3-Z	85				.25	NO			
			E34	91C				.25	NO			
A 285	9											
A 285L			J3-X	85				.25	NO			
			E33	110A				.25	NO			
A 285R			J3-Y	85				.25	NO			
			E32	91D				.25	NO			
A 286	9											

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 81 OF 173

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 286L			J2-J	87				.25	NO			
			E33	110A				.25	NO			
A 286R			J2-H	87				.25	NO			
			E32	91D				.25	NO			
A 287	2		J13-C	91				.25	NO			
			J5-M	92				.25	NO			
A 288	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						
A 288A	1		SHLD A288					.25	NO			
			E7	181				.25	NO			
A 288L			J2-P	87				.25	NO			
			J5-E	92				.25	NO			
A 288R			J2-N	87				.25	NO			
			J5-D	92				.25	NO			
A 289	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						
A 289A	1		SHLD A289					.25	NO			
			E25	188				.25	NO			
A 289L			J32-N	90				.25	NO			
			J18-G*	96				.25	NO			
A 289R			J32-M	90				.25	NO			
			J18-H*	96				.25	NO			
A 290	10				3.25	3.00				A,4 B,7	57, 56, 63 63	
					3.25	3.00						

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902255
SCALE - NONE	REV LTR E	SHEET 82 OF 173

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	2		T82-47C	68				.15	NO		48	
			J30-P6	75				.20	NO		46	
A 430	2		J26-S5	79				.20	NO		46	
			T82-47B	67				.15	NO		48	
A 433	2		J26-R5	79				.20	NO		46	
			T83-17J	121				.25	NO		50	
A 434	2		J26-R6	79				.20	NO		46	
			T83-17K	121				.25	NO		50	
A 435	1		J21-P5	84				.20	NO		46	
			J21-P4	84				.20	NO		46	
A 436	1		J21-P4	84				.20	NO			
			J21-R4	84				.20	NO		46	
A 437	2		J21-R4	84				.20	NO			
			T81-8C	5				.15	NO		48	
A 438	2		J21-P2	84				.20	NO		46	
			T81-8B	5				.15	NO		48	
A 439	2		J21-S6	84				.20	NO		46	
			T81-8A	5				.15	NO		48	
A 440	2		T81-8B	6				.15	NO		48	
			T83-18S	158				.25	NO		50	
A 441	2		T81-8C	6				.15	NO		48	
			T83-18P	158				.25	NO		50	
A 442	1		J21-R2	84				.20	NO		46	
			J21-R1	84				.20	NO		46	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	2		J21-R1	84				.20	NO			
			T81-9D	5				.15	NO		48	
A 444	2		J21-P6	84				.20	NO		46	
			T81-9A	5				.15	NO		48	
A 445	2		T81-9B	6				.15	NO		48	
			T83-18Q	158				.25	NO		50	
A 446	2		T81-9C	6				.15	NO		48	
			T83-18M	160				.25	NO		50	
A 447	1		J21-P3	84				.20	NO		46	
			J21-R3	84				.20	NO		46	
A 448	2		J21-R3	84				.20	NO			
			T81-10A	5				.15	NO		48	
A 449	2		J21-R5	84				.20	NO		46	
			T81-10B	5				.15	NO		48	
A 450	2		J21-R6	84				.20	NO		46	
			T81-10D	5				.15	NO		48	
A 451	2		T81-10B	6				.15	NO		48	
			T83-18N	160				.25	NO		50	
A 452	2		T81-10C	5				.15	NO		48	
			T83-18K	160				.25	NO		50	
A 453	1		J12-CC	113				.25	NO			
			J27-F2	78				.25	YES		47	
A 454	1		J27-F2	78				.25	YES			
			T82-11C	43				.15	NO		49	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 455	15				2.25	2.00				A,4	59, 65, 63	
					2.25	2.00				B,7	63	
A 455A	1		SHLD A455					.25	NO			
			E22	170				.25	NO			
A 455L			J21-N2	84				.20	NO		46	
			T82-11B	44				.15	NO		49	
A 455R			J21-P1	84				.20	NO		46	
			T82-11A	44				.15	NO		49	
A 455Y			J21-N1	84				.20	NO		46	
			T82-11C	44				.15	NO		49	
A 456	13											
A 456L			T82-11D	43				.15	NO		49	
			J27-P2	78				.20	NO		46	
A 456R			T82-11A	43				.15	NO		49	
			J27-N2	78				.20	NO		46	
A 456Y			T82-11B	43				.15	NO		49	
			J27-R2	78				.20	NO		46	
A 457	2		T82-11D	44				.15	NO		48	
			T82-12A	46				.15	NO		48	
A 458	1		J27-S2	78				.20	NO		46	
			J27-S1	78				.20	NO		46	
A 459	2		J27-S1	78				.20	NO			
			T82-12B	45				.15	NO		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902255 | SCALE - NONE | REV LTR E | SHEET 113 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 460	1		J27-S4	78				.20	NO		46	
			J27-S3	78				.20	NO		46	
A 461	2		J27-S3	78				.20	NO			
			T82-12D	45				.15	NO		48	
A 462	2		T82-12B	46				.15	NO		48	
			T83-18L	160				.25	NO		50	
A 463	2		T82-12C	46				.15	NO		48	
			T83-18H	162				.25	NO		50	
A 464	2		J27-R6	78				.20	NO		46	
			T83-17L	121				.25	NO		50	
A 465	2		J27-S6	78				.20	NO		46	
			T83-17M	119				.25	NO		50	
A 466	16				3.25	3.00				B,7	62	
					2.25	2.00				A,4	60, 61, 62	
A 466B	1		E8	180				.25	NO			
			SHLD A466					.25	NO			
A 466L			J31-F	89				.25	NO			
			T82-37B	62				.15	NO		48	
A 466R			J31-E	89				.25	NO			
			T82-37A	62				.15	NO		48	
A 466Y			J31-D	89				.25	NO			
			T82-37C	62				.15	NO		48	
A 467	9											

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902255 | SCALE - NONE | REV LTR E | SHEET 114 OF 173

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 467L			TB2-37C	61				.15	NO		48	
			J29-S3	76				.20	NO		46	
A 467R			TB2-37A	61				.15	NO		48	
			J29-T3	76				.20	NO		46	
A 468	2		TB2-37B	61				.15	NO		48	
			TB2-35C	59				.15	NO		48	
A 469	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 469A	1		SHLD A469					.25	NO			
			E12	196				.25	NO			
A 469L			J17-G*	109				.25	NO			
			J29-D2	76				.25	YES		47	
A 469R			J17-F*	109				.25	NO			
			J29-D3	76				.25	YES		47	
A 470	16				3.25	3.00				B,7	62	
					2.25	2.00				A,4	60, 61, 62	
A 470B	1		E8	180				.25	NO			
			SHLD A470					.25	NO			
A 470L			J19-U*	106				.25	NO			
			TB2-38D	62				.15	NO		48	
A 470R			J19-B*	106				.25	NO			
			TB2-38A	62				.15	NO		48	
A 470Y			J19-A*	106				.25	NO			
			TB2-38C	62				.15	NO		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902255 | SCALE-NONE | REV LTR E | SHEET 115 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 471	9											
A 471L			TB2-38C	61				.15	NO		48	
			J29-S1	76				.20	NO		46	
A 471R			TB2-38A	61				.15	NO		48	
			J29-T1	76				.20	NO		46	
A 472	2		TB2-38B	61				.15	NO		48	
			TB2-36A	61				.15	NO		48	
A 473	16				3.25	3.00				B,7	62	
					2.25	2.00				A,4	60, 61, 62	
A 473B	1		E8	180				.25	NO			
			SHLD A473					.25	NO			
A 473L			J18-Z	96				.25	NO			
			TB2-39D	64				.15	NO		48	
A 473R			J18-P*	96				.25	NO			
			TB2-39A	64				.15	NO		48	
A 473Y			J18-N*	96				.25	NO			
			TB2-39C	64				.15	NO		48	
A 474	2		TB2-39B	63				.15	NO		48	
			TB2-36D	61				.15	NO		48	
A 475	1		J30-B7	75				.25	YES			
			J29-L1	76				.20	NO		46	
A 476	1		J29-L1	76				.20	NO			
			J29-L2	76				.20	NO		46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902255 | SCALE-NONE | REV LTR E | SHEET 116 OF 173

MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J29-L2	76				.20	NO			
			J29-L3	76				.20	NO		46	
A 478	1		J29-L3	76				.20	NO			
			J29-L4	76				.20	NO		46	
A 479	1		J29-L4	76				.20	NO			
			J29-L5	76				.20	NO		46	
A 480	1		J29-L5	76				.20	NO			
			J29-L6	76				.20	NO		46	
A 481	2		J29-L6	76				.20	NO			
			TB2-35B	59				.15	NO		48	
A 482	2		TB2-33C	59				.15	NO		48	
			TB2-35A	59				.15	NO		48	
A 483	2		TB2-35A	60				.15	NO		48	
			TB3-17N	119				.25	NO		50	
A 484	2		TB2-35B	60				.15	NO		48	
			TB3-17P	119				.25	NO		50	
A 485	2		J29-R1	76				.20	NO		46	
			TB2-36B	61				.15	NO		48	
A 486	2		TB2-36A	62				.15	NO		48	
			TB3-17R	117				.25	NO		50	
A 487	2		TB2-36B	62				.15	NO		48	
			TB3-17S	117				.25	NO		50	
A 488	2		J29-R2	76				.20	NO		46	
			TB2-36C	61				.15	NO		48	

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MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	2		TB2-36C	62				.15	NO		48	
			TB3-17R	117				.25	NO		50	
A 490	2		TB2-36D	62				.15	NO		48	
			TB3-17S	117				.25	NO		50	
A 491	2		J29-R3	76				.20	NO		46	
			TB2-35D	59				.15	NO		48	
A 492	2		TB2-35C	60				.15	NO		48	
			TB3-17Q	119				.25	NO		50	
A 493	2		TB2-35D	60				.15	NO		48	
			TB3-17P	119				.25	NO		50	
A 494	2		J29-S4	76				.20	NO		46	
			TB3-17T	117				.25	NO		50	
A 495	2		J29-S5	76				.20	NO		46	
			TB3-17V	117				.25	NO		50	
A 496	1		J27-T1	78				.20	NO		46	
			J27-T2	78				.20	NO		46	
A 497	2		J27-T1	78				.20	NO			
			TB2-48A	69				.15	NO		48	
A 498	2		J12-Q*	113				.25	NO			
			TB2-48B	70				.15	NO		48	
A 499	2		TB2-48A	70				.15	NO		48	
			J30-R3	75				.20	NO		46	
A 500	2		TB2-48B	69				.15	NO		48	
			J30-R4	75				.20	NO		46	

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MIL 3064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 597	2		TB2-54D	74				.15	NO		48	
			J5-K*	92				.25	NO			
A 598	1		J11-Y	114				.25	NO			
			J22-L2	83				.20	NO		46	
A 599	1		J22-N6	83				.20	NO		46	
			J22-R6	83				.20	NO		46	
A 600	2		J22-R6	83				.20	NO			
			TB3-17X	115				.25	NO		50	
A 601	8											
A 601L			J17-K	109				.25	NO			
			TB3-8B	150				.15	NO		49	
A 601R			J17-J	109				.25	NO			
			TB3-8A	150				.15	NO		49	
A 602	2		TB3-17Z	115				.25	NO		50	
			TB3-9A	128				.15	NO		48	
A 603	13											
A 603L			TB3-8B	129				.15	NO		49	
			J32-BB	90				.25	NO			
A 603R			TB3-8A	129				.15	NO		49	
			J32-AA	90				.25	NO			
A 603Y			TB3-9B	129				.15	NO		49	
			J32-CC	90				.25	NO			

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 604	1		J17-L	109				.25	NO			
			TB3-8C	150				.15	NO		49	
A 605	8											
A 605L			TB3-8D	129				.15	NO		49	
			J31-X	89				.25	NO			
A 605R			TB3-8C	129				.15	NO		49	
			J31-W	89				.25	NO			
A 606	1		TB3-8D	150				.15	NO		49	
			TB3-9B	151				.15	NO		49	
A 607	9											
A 607L			J29-S2	76				.20	NO		46	
			TB2-39C	63				.15	NO		48	
A 607R			J29-T2	76				.20	NO		46	
			TB2-39A	63				.15	NO		48	
A 608	8											
A 608L			J12-F*	113				.25	NO			
			K13-11	164A				.25	YES		45	
A 608R			J12-E*	113				.25	NO			
			K13-4	164A				.25	YES		45	
A 610	12											

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 610K			J21-M2	84				.20	NO		46	
			TB1-12D	7				.15	NO		48	
A 610L			J21-M1	84				.20	NO		46	
			TB1-11B	7				.15	NO		48	
A 610R			J21-L1	84				.20	NO		46	
			TB1-11A	7				.15	NO		48	
A 610Y			J21-L2	84				.20	NO		46	
			TB1-12C	7				.15	NO		48	
A 611	11				2.25	2.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 611A	1		SHLD A611					.25	NO			
			E22	170				.25	NO			
A 611L			TB1-12C	8				.15	NO		48	
			K13-2	164A				.25	YES		45	
A 611R			TB1-11A	8				.15	NO		48	
			K13-6	164A				.25	YES		45	
A 612	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 612B	1		E22	170				.25	NO			
			SHLD A612					.25	NC			
A 612L			J12-C	113				.25	NO			
			TB1-12B	8				.15	NO		48	
A 612R			J12-A	113				.25	NO			
			TB1-11B	8				.15	NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 613	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 613B	1		E22	170				.25	NO			
			SHLD A613					.25	NO			
A 613L			J5-Q*	92				.25	NO			
			TB1-12B	7				.15	NO		48	
A 613R			J5-P*	92				.25	NO			
			TB1-11C	7				.15	NO		48	
A 614	11				3.25	3.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 614A	1		SHLD A614					.25	NO			
			E29	193				.25	NO			
A 614L			K13-3	164A				.25	YES		45	
			J1-S	86				.25	NO			
A 614R			K13-5	164A				.25	YES		45	
			J1-R	86				.25	NO			
A 615	11				3.25	3.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 615A	1		SHLD A615					.25	NO			
			E29	193				.25	NO			
A 615L			K13-3	164A				.25	YES			
			J14-B*	111				.25	NO			
A 615R			K13-5	164A				.25	YES			
			J14-A*	111				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 616	11				3.25	3.00				B,7	63	
					3.25	3.00				A,4	59, 58, 63	
A 616B	1		E28	192				.25	NO			
			SHLD A616					.25	NO			
A 616L			K13-1	164A				.25	YES		45	
			J14-C	111				.25	NO			
A 616R			K13-7	164A				.25	YES		45	
			J14-A	111				.25	NO			
A 617	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 617A	1		SHLD A617					.25	NO			
			E23	166				.25	NO			
A 617L			J1-U	86				.25	NO			
			K13-10	164A				.25	YES		45	
A 617R			J1-T	86				.25	NO			
			K13-12	164A				.25	YES		45	
A 618	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 618A	1		SHLD A618					.25	NO			
			E29	193				.25	NO			
A 618L			K13-8	164A				.25	YES		45	
			J12-B*	113				.25	NO			
A 618R			K13-14	164A				.25	YES		45	
			J12-A*	113				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 619	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 619A	1		SHLD A619					.25	NO			
			E29	193				.25	NO			
A 619L			K13-9	164A				.25	YES		45	
			J21-G3	84				.20	NO		46	
A 619R			K13-13	164A				.25	YES		45	
			J21-F3	84				.20	NO		46	
A 620	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 620A	1		SHLD A620					.25	NO			
			E22	170				.25	NO			
A 620L			J21-G3	84				.20	NO			
			J13-V	91				.25	NO			
A 620R			J21-F3	84				.20	NO			
			J13-U	91				.25	NO			
A 621	2		TB1-12D	8				.15	NO		48	
			J22-K2	63				.20	NO		46	
A 622	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 622A	1		SHLD A622					.25	NO			
			E25	188				.25	NO			
A 622L			J32-NN	90				.25	NO			
			TB2-55C	74				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 622R			J32-MM	90				.25	NO			
			TB2-55A	74				.15	NO		49	
A 623	8											
A 623L			TB2-55C	73				.15	NO		49	
			J30-A8	75				.25	YES		47	
A 623R			TB2-55A	73				.15	NO		49	
			J30-A7	75				.25	YES		47	
A 624	10				2.25	2.00				A,5	57, 56, 63	
					1.50	1.25				B,7	63	
A 624A	1		SHLD A624					.25	NO			
			TB2-55D	74				.15	NO		49	
A 624L			J30-C3	75				.25	YES		47	
			TB5-19	211				.25	YES			
A 624R			J30-C4	75				.25	YES		47	
			TB5-20	210				.25	YES			
A 625	7				.52	.25				B,10	41, 42, 63	
					1.50	1.25				A,5	53, 52, 63	
A 625B	1		TB5-21	209								
			SHLD A625					.25	NO			
A 625E			J6-K1	108				.15	NO		40	
			TB5-23	207				.25	YES			
A 625X			J6-K2	108								
			SHLD A625									

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 626	1		TB5-21	209				.25	YES			
			TB2-55D	73				.15	NO		49	
A 627	7				3.25	3.00				A,5	53, 52, 63	
					1.50	1.25				A,5	53, 52, 63	
A 627A	1		SHLD A627					.25	NO			
			J48	102				.25	YES			
A 627B	1		TB5-21	209				.25	YES			
			SHLD A627					.25	NO			
A 627E			J47	102				.25	YES			
			TB5-22	208				.25	YES			
A 628	10				2.25	2.00				A,4	57, 56, 63	
					1.50	1.25				B,7	63	
A 628A	1		SHLD A628					.25	NO			
			E9	168				.25	NO			
A 628L			J22-F4	83				.20	NO		46	
			TB5-1	197								
A 628R			J22-D4	83				.20	NO		46	
			TB5-2	198				.25	YES			
A 629	7				.52	.25				B,10	41, 42, 63	
					1.50	1.25				A,5	53, 52, 63	
A 629B	1		TB5-3	199				.25	YES			
			SHLD A629					.25	NO			
A 629E			J8-D1	94				.15	NO		40	
			TB5-5	201				.25	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 654	2		TB1-27C	17				.15	NO		48	
			J22-R5	83				.20	NO		46	
A 655	2		TB1-27B	18				.15	NO		48	
			TB3-18D	164				.25	NO		50	
A 656	2		TB1-27C	18				.15	NO		48	
			TB3-18B	164				.25	NO		50	
A 657	2		J22-B5	83				.20	NO		46	
			TB3-18A	164				.25	NO		50	
A 658	2		J22-G5	83				.20	NO		46	
			TB3-18C	164				.25	NO		50	
A 659	2		J17-H	109				.25	NO			
			TB3-12D	152				.15	NO		48	
A 660	2		TB3-12A	127				.15	NO		48	
			E11	194				.25	NO			
A 661	1		E11	194				.25	NO			
			J18-KK	96				.25	NO			
A 662	1		E11	194				.25	NO			
			J19-KK	106				.25	NO			
A 663	1		E11	194				.25	NO			
			J31-MM	89				.25	NO			
A 664	1		E11	194				.25	NO			
			J32-PP	90				.25	NO			
A 665	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 665A	1		SHLD A665					.25	NO			
			TB3-12C	151				.15	NO		49	
A 665L			J17-E	109				.25	NO			
			TB3-11B	151				.15	NO		48	
A 665R			J17-D	109				.25	NO			
			TB3-10B	151				.15	NO		48	
A 666	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 666A	1		SHLD A666					.25	NO			
			TB3-12B	151				.15	NO		49	
A 666L			J17-G	109				.25	NO			
			TB3-11C	151				.15	NO		48	
A 666R			J17-F	109				.25	NO			
			TB3-10C	151				.15	NO		48	
A 667	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 667A	1		SHLD A667					.25	NO			
			TB3-12C	128				.15	NO		49	
A 667L			TB3-11A	128				.15	NO		49	
			J18-J	96				.25	NO			
A 667R			TB3-10A	128				.15	NO		49	
			J18-H	96				.25	NO			
A 668	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 668A	1		SHLD A668					.25	NO			
			TB3-12A	151				.15	NO		49	
A 668L			TB3-11A	151				.15	NO		49	
			J19-J	106				.25	NO			
A 668R			TB3-10A	151				.15	NO		49	
			J19-H	106				.25	NO			
A 669	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 669A	1		SHLD A669	128				.25	NO			
			TB3-12B	128				.15	NO		49	
A 669L			TB3-11C	128				.15	NO		49	
			J31-N*	89				.25	NO			
A 669R			TB3-10C	128				.15	NO		49	
			J31-M*	89				.25	NO			
A 670	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 670A	1		SHLD A670					.25	NO			
			TB3-12D	128				.15	NO		49	
A 670L			TB3-11D	128				.15	NO		49	
			J32-T*	90				.25	NO			
A 670R			TB3-10D	128				.15	NO		49	
			J32-S*	90				.25	NO			
A 671	2		TB3-1F	137				.25	NO		50	
			TB3-13B	126				.15	NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 672	2		TB3-1H	137				.25	NO		50	
			TB3-14B	126				.15	NO		48	
A 673	2		TB3-1L	135				.25	NO		50	
			TB3-15B	125				.15	NO		48	
A 674	2		TB3-1N	135				.25	NO		50	
			TB3-16B	125				.15	NO		48	
A 675	2		E7	181				.25	NO			
			TB3-13A	153				.15	NO		48	
A 676	2		E8	180				.25	NO			
			TB3-13A	126				.15	NO		48	
A 677	2		E12	196				.25	NO			
			TB3-13B	153				.15	NO		48	
A 678	2		E13	179				.25	NO			
			TB3-13C	126				.15	NO		48	
A 679	2		E14	178				.25	NO			
			TB3-13C	153				.15	NO		48	
A 680	2		E15	177				.25	NO			
			TB3-13D	153				.15	NO		48	
A 681	2		E16	176				.25	NO			
			TB3-13D	126				.15	NO		48	
A 682	2		E17	171				.25	NO			
			TB3-14A	126				.15	NO		48	
A 683	2		E18	175				.25	NO			
			TB3-14A	153				.15	NO		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 684	2		E19	172				.25	NO			
			TB3-14B	153				.25	NO		48	
A 685	2		E20	169				.25	NO			
			TB3-14C	126				.15	NO		48	
A 686	2		E21	167				.25	NO			
			TB3-14C	153				.15	NO		48	
A 687	2		E22	170				.25	NO			
			TB3-14D	126				.15	NO		48	
A 688	2		E23	166				.25	NO			
			TB3-14D	153				.15	NO		48	
A 689	2		E24	165				.25	NO			
			TB3-15A	125				.15	NO		48	
A 690	2		E25	188				.25	NO			
			TB3-15A	154				.15	NO		48	
A 691	2		E26	191				.25	NO			
			TB3-15B	154				.15	NO		48	
A 692	2		E27	189				.25	NO			
			TB3-15C	125				.15	NO		48	
A 693	2		E28	192				.25	NO			
			TB3-15C	154				.15	NO		48	
A 694	2		E29	193				.25	NO			
			TB3-15D	154				.15	NO		48	
A 695	2		E30	195				.25	NO			
			TB3-15D	125				.15	NO		48	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 696	15				3.25	3.00				A,5	59, 65, 63	
					2.25	2.00				A,5	59, 65, 63	
A 696A	1		SHLD A696					.25	NO			
			J18-U*	96				.25	NO			
A 696B	1		J27-D9	78				.25	YES		47	
			SHLD A696					.25	NO			
A 696L			J18-S*	96				.25	NO			
			J27-F9	78				.25	YES		47	
A 696R			J18-R*	96				.25	NO			
			J27-C9	78				.25	YES		47	
A 696Y			J18-T*	96				.25	NO			
			J27-D9	78				.25	YES			
A 697	15				3.25	3.00				A,5	59, 65, 63	
					2.25	2.00				A,5	59, 65, 63	
A 697A	1		SHLD A697					.25	NO			
			J19-G*	106				.25	NO			
A 697B	1		J27-A7	78				.25	YES		47	
			SHLD A697					.25	NO			
A 697L			J19-E*	106				.25	NO			
			J27-A8	78				.25	YES		47	
A 697R			J19-D*	106				.25	NO			
			J27-A6	78				.25	YES		47	
A 697Y			J19-F*	106				.25	NO			
			J27-A7	78				.25	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 698	13											
A 698L			J27-K4	78				.20	NO		46	
			TB2-5C	39				.15	NO		49	
A 698R			J27-G4	78				.20	NO		46	
			TB2-5A	39				.15	NO		49	
A 698Y			J27-H4	78				.20	NO		46	
			TB2-6A	39				.15	NO		49	
A 699	13											
A 699L			TB2-5D	39				.15	NO		49	
			J28-K4	77				.20	NO		46	
A 699R			TB2-5B	39				.15	NO		49	
			J28-G4	77				.20	NO		46	
A 699Y			TB2-6B	39				.15	NO		49	
			J28-H4	77				.20	NO		46	
A 700	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 700B	1		TB2-6A	40				.15	NO		49	
			SHLD A700					.25	NO			
A 700E			J7-K1	95				.15	NO		40	
			TB2-5A	40				.15	NO		49	
A 700X			J7-K2	95								
			SHLD A700									

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 701	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 701B	1		TB2-6B	40				.15	NO		49	
			SHLD A701					.25	NO			
A 701E			J7-H1	95				.15	NO		40	
			TB2-5C	40				.15	NO		49	
A 701X			J7-H2	95								
			SHLD A701									
A 702	13											
A 702L			J27-K6	78				.20	NO		46	
			TB2-7C	41				.15	NO		49	
A 702R			J27-G6	78				.20	NO		46	
			TB2-7A	41				.15	NO		49	
A 702Y			J27-H6	78				.20	NO		46	
			TB2-6C	41				.15	NO		49	
A 703	13											
A 703L			J28-K6	77				.20	NO		46	
			TB2-7D	41				.15	NO		49	
A 703R			J28-G6	77				.20	NO		46	
			TB2-7B	41				.15	NO		49	
A 703Y			J28-H6	77				.20	NO		46	
			TB2-6D	41				.15	NO		49	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 704	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 704B	1		TB2-6C SHLD A704	42				.15 .25	NO NO		49	
A 704E			J7-G1 TB2-7A	95 42				.15 .15	NO NO		40 49	
A 704X			J7-G2 SHLD A704	95								
A 705	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 705B	1		TB2-6D SHLD A705	42				.15 .25	NO NO		49	
A 705E			J7-J1 TB2-7C	95 42				.15 .15	NO NO		40 49	
A 705X			J7-J2 SHLD A705	95								
A 706	1		J27-A9 J27-B9	78 78				.25 .25	YES YES		47 47	
A 707	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 707B	1		E15 SHLD A707	177				.25 .25	NO NO			
A 707L			J2-R J27-N4	87 78				.25 .20	NO NO		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 707R			J2-X J27-M4	87 78				.25 .20	NO NO		46	
A 708	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 708A	1		SHLD A708 E7	181				.25 .25	NO NO			
A 708L			J2-A* J27-C5	87 78				.25 .25	NO YES		47	
A 708R			J2-Z J27-C6	87 78				.25 .25	NO YES		47	
A 709	1		J5-AA J27-C7	92 78				.25 .25	NO YES		47	
A 710	1		J13-W J27-C8	91 78				.25 .25	NO YES		47	
A 711	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 711A	1		SHLD A711 E7	181				.25 .25	NO NO			
A 711L			J2-L J27-B5	87 78				.25 .25	NO YES		47	
A 711R			J2-M J27-B6	87 78				.25 .25	NO YES		47	
A 712	1		J12-D J27-B8	113 78				.25 .25	NO YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 713	1		J12-E J27-D7	113 78				.25 .25	NO YES		47	
A 714	1		J5-BB J27-F7	92 78				.25 .25	NO YES		47	
A 715	1		J5-A J27-D5	92 78				.25 .25	NO YES		47	
A 716	1		J12-AA J27-F5	113 78				.25 .25	NO YES		47	
A 717	1		J12-BB J27-F4	113 78				.25 .25	NO YES		47	
A 718	1		J12-DD J27-F3	113 78				.25 .25	NO YES		47	
A 719	1		J12-EE J27-F6	113 78				.25 .25	NO YES		47	
A 720	8											
A 720L			J5-HH K1-5	92 88A				.25 .25	NO YES		44	
A 720R			J5-GG K1-1	92 88A				.25 .25	NO YES		44	
A 721	8											
A 721L			K1-5 K6-5	88A 88A				.25 .25	YES YES		44	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 721R			K1-1 K6-1	88A 88A				.25 .25	YES YES		44	
A 722	8											
A 722L			J5-CC K5-5	92 88A				.25 .25	NO YES		44	
A 722R			J5-EE K5-1	92 88A				.25 .25	NO YES		44	
A 723	8											
A 723L			J5-DD K2-5	92 88A				.25 .25	NO YES		44	
A 723R			J5-W* K2-1	92 88A				.25 .25	NO YES		44	
A 724	2		J2-Y K2-7	87 88A				.25 .25	NO YES		44	
A 725	2		K2-7 K5-7	88A 88A				.25 .25	YES YES		44	
A 726	2		K2-4 J27-L1	88A 78				.25 .20	YES NO		44 46	
A 727	2		K5-4 J27-M1	88A 78				.25 .20	YES NO		44 46	
A 728	2		K1-8 J27-G1	88A 78				.25 .20	YES NO		44 46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 729	2		K1-3	88A				.25	YES		44	
			K4-8	88A				.25	YES		44	
A 730	2		K4-8	88A				.25	YES			
			J27-N5	78				.20	NO		46	
A 731	2		J27-N6	78				.20	NO		46	
			K2-8	88A				.25	YES		44	
A 732	2		K2-3	88A				.25	YES		44	
			J27-M5	78				.20	NO		46	
A 733	2		K2-8	88A				.25	YES			
			K4-3	88A				.25	YES		44	
A 734	2		K4-3	88A				.25	YES			
			K3-4	88A				.25	YES		44	
A 735	2		K3-7	88A				.25	YES		44	
			J27-M6	78				.20	NO		46	
A 736	2		J27-H2	78				.20	NO		46	
			K1-7	88A				.25	YES		44	
A 737	2		K1-7	88A				.25	YES			
			K5-8	88A				.25	YES		44	
A 738	2		K5-3	88A				.25	YES		44	
			J27-G2	78				.20	NO		46	
A 739	2		K1-4	88A				.25	YES		44	
			J27-H1	78				.20	NO		46	
A 740	2		K6-6	88A				.25	YES		44	
			K6-1	88A				.25	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 741	1		J5-X*	92				.25	NO			
			K4-5	88A				.25	YES		44	
A 742	1		K4-1	88A				.25	YES		44	
			K6-4	88A				.25	YES		44	
A 743	1		J5-Y*	92				.25	NO			
			K6-6	88A				.25	YES			
A 744	1		J5-Z*	92				.25	NO			
			K3-1	88A				.25	YES		44	
A 745	1		K4-5	88A				.25	YES			
			K3-5	88A				.25	YES			
A 746	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 746B	1		E15	177				.25	NO			
			SHLD A746					.25	NO			
A 746L			J2-W	87				.25	NO			
			J27-N1	78				.20	NO		46	
A 746R			J2-V	87				.25	NO			
			J27-P1	78				.20	NO		46	
A 747	2		J2-K	87				.25	NO			
			J27-M2	78				.20	NO		46	
A 748	1		J12-F	113				.25	NO			
			J27-D6	78				.25	YES		47	
A 749	1		J12-G	113				.25	NO			
			J27-B7	78				.25	YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 750	1		J27-M3	78				.20	NO		46	
			J22-F3	83				.20	NO		46	
A 751	1		J22-F3	83				.20	NO			
			J12-C*	113				.25	NO			
A 752	1		J11-L	114				.25	NO			
			J27-L3	78				.20	NO		46	
A 753	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 753A	1		SHLD A753					.25	NO			
			E26	191				.25	NO			
A 753L			J5-T	92				.25	NO			
			TB2-8B	42				.15	NO		48	
A 753R			J5-S	92				.25	NO			
			TB2-8A	42				.15	NO		48	
A 754	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 754B	1		E15	177				.25	NO			
			SHLD A754					.25	NO			
A 754L			J2-G*	87				.25	NO			
			TB2-8B	41				.15	NO		48	
A 754R			J2-F*	87				.25	NO			
			TB2-10C	41				.15	NO		48	
A 755	9											

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 755L			TB2-10D	41				.15	NO		48	
			J27-P4	78				.20	NO		46	
A 755R			TB2-8A	41				.15	NO		48	
			J27-R4	78				.20	NO		46	
A 757	1		J12-P*	113				.25	NO			
			J27-P5	78				.20	NO		46	
A 758	1		J14-S	111				.25	NO			
			J27-P6	78				.20	NO		46	
A 759	2		J27-R1	78				.20	NO		46	
			J21-S3	84				.20	NO		46	
A 760	2		J14-PP	111				.25	NO			
			J27-T3	78				.20	NO		46	
A 761	1		J27-T3	78				.20	NO			
			J27-T4	78				.20	NO		46	
A 762	9											
A 762L			J22-N6	83				.20	NO			
			TB1-21B	13				.15	NO		48	
A 762R			J22-P6	83				.20	NO		46	
			TB1-20B	13				.15	NO		48	
A 763	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 763A	1		SHLD A763					.25	NO			
			E21	167				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 775A	1		SHLD A775					.25	NO			
			J32-J	90				.25	NO			
A 775B	1		J28-B7	77				.25	YES		47	
			SHLD A775					.25	NO			
A 775E			J32-H	90				.25	NO			
			J28-A7	77				.25	YES		47	
A 776	9											
A 776L			J29-G6	76				.20	NO		46	
			J28-G1	77				.20	NO		46	
A 776R			J29-G5	76				.20	NO		46	
			J28-G2	77				.20	NO		46	
A 777	16				3.25	3.00				B,7	62	
					2.25	2.00				A,4	60, 61, 62	
A 777B	1		E14	178				.25	NO			
			SHLD A777					.25	NO			
A 777L			J32-F	90				.25	NO			
			TB2-16B	48				.15	NO		48	
A 777R			J32-E	90				.25	NO			
			TB2-16A	48				.15	NO		48	
A 777Y			J32-D	90				.25	NO			
			TB2-16D	48				.15	NO		48	
A 778	9											

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 778L			TB2-16D	47				.15	NO		48	
			J28-T5	77				.20	NO		46	
A 778R			TB2-16A	47				.15	NO		48	
			J28-S5	77				.20	NO		46	
A 780	1		J28-M3	77				.20	NO		46	
			TB2-17A	47				.15	NO		49	
A 781	1		J28-M4	77				.20	NO		46	
			TB2-17B	47				.15	NO		49	
A 782	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 782A	1		SHLD A782					.25	NO			
			E14	178				.25	NO			
A 782L			TB2-17C	48				.15	NO		49	
			J16-F	112				.25	NO			
A 782R			TB2-17A	48				.15	NO		49	
			J16-E	112				.25	NO			
A 783	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 783A	1		SHLD A783					.25	NO			
			E14	178				.25	NO			
A 783L			TB2-17D	48				.15	NO		49	
			J16-K	112				.25	NO			
A 783R			TB2-17B	48				.15	NO		49	
			J16-J	112				.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 784	2		TB2-19D	49				.15	NO		48	
			TB2-18D	49				.15	NO		48	
A 785	1		J28-M1	77				.20	NO		46	
			TB2-18A	49				.15	NO		49	
A 786	1		J28-M2	77				.20	NO		46	
			TB2-18B	49				.15	NO		49	
A 787	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 787A	1		SHLD A787					.25	NO			
			E14	178				.25	NO			
A 787L			TB2-18C	50				.15	NO		49	
			J16-K*	112				.25	NO			
A 787R			TB2-18A	50				.15	NO		49	
			J16-J*	112				.25	NO			
A 788	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 788A	1		SHLD A788					.25	NO			
			E14	178				.25	NO			
A 788L			TB2-18D	50				.15	NO		49	
			J16-H*	112				.25	NO			
A 788R			TB2-18B	50				.15	NO		49	
			J16-G*	112				.25	NO			
A 789	1		J28-M5	77				.20	NO		46	
			TB2-19A	49				.15	NO		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 790	1		J28-M6	77				.20	NO		46	
			TB2-19B	49				.15	NO		49	
A 791	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 791A	1		SHLD A791					.25	NO			
			E14	178				.25	NO			
A 791L			TB2-19C	50				.15	NO		49	
			J16-D*	112				.25	NO			
A 791R			TB2-19A	50				.15	NO		49	
			J16-C*	112				.25	NO			
A 792	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 792A	1		SHLD A792					.25	NO			
			E14	178				.25	NO			
A 792L			TB2-19D	50				.15	NO		49	
			J16-D	112				.25	NO			
A 792R			TB2-19B	50				.15	NO		49	
			J16-C	112				.25	NO			
A 793	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 793A	1		SHLD A793					.25	NO			
			J32-Y*	90				.25	NO			
A 793B	1		TB2-20A	50				.15	NO		49	
			SHLD A793					.25	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 793L			J32-E*	90				.25	NO			
			TB2-21A	52				.15	NO		49	
A 793R			J32-F*	90				.25	NO			
			TB2-20B	50				.15	NO		49	
A 794	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				A,5	57, 56, 63	
A 794A	1		SHLD A794					.25	NO			
			TB2-20C	50				.15	NO		49	
A 794B	1		J19-DD	106				.25	NO			
			SHLD A794					.25	NO			
A 794L			TB2-21B	50				.15	NO		49	
			J19-Q*	106				.25	NO			
A 794R			TB2-20D	50				.15	NO		49	
			J19-P*	106				.25	NO			
A 795	8											
A 795L			TB2-21A	49				.15	NO		49	
			J26-C2	77				.25	YES		47	
A 795R			TB2-20B	49				.15	NO		49	
			J28-C1	77				.25	YES		47	
A 796	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 796A	1		SHLD A796					.25	NO			
			J32-C*	90				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 796B	1		J28-B9	77				.25	YES		47	
			SHLD A796					.25	NO			
A 796E			J32-B*	90				.25	NO			
			J28-A9	77				.25	YES		47	
A 797	9											
A 797L			J29-H6	76				.20	NO		46	
			J28-H1	77				.20	NO		46	
A 797R			J29-K6	76				.20	NO		46	
			J28-K1	77				.20	NO		46	
A 798	9											
A 798L			J28-T6	77				.20	NO		46	
			TB2-22D	51				.15	NO		48	
A 798R			J28-S6	77				.20	NO		46	
			TB2-22A	51				.15	NO		48	
A 799	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 799A	1		SHLD A799					.25	NO			
			E14	178				.25	NO			
A 799L			TB2-22B	52				.15	NO		48	
			J32-W	90				.25	NO			
A 799R			TB2-22A	52				.15	NO		48	
			J32-V	90				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 799Y			TB2-22D	52				.15	NO		48	
			J32-U	90				.25	NO			
A 801	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 801A	1		SHLD A801					.25	NO			
			J31-F*	89				.25	NO			
A 801B	1		J28-D5	77				.25	YES		47	
			SHLD A801					.25	NO			
A 801L			J31-D*	89				.25	NO			
			J28-C5	77				.25	YES		47	
A 801R			J31-E*	89				.25	NO			
			J28-D5	77				.25	YES			
A 802	9											
A 802L			J28-T4	77				.20	NO		46	
			TB2-23D	51				.15	NO		48	
A 802R			J28-S4	77				.20	NO		46	
			TB2-23A	51				.15	NO		48	
A 804	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 804A	1		SHLD A804					.25	NO			
			E14	178				.25	NO			
A 804L			TB2-23B	52				.15	NO		48	
			J31-V	89				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 804R			TB2-23A	52				.15	NO		48	
			J31-U	89				.25	NO			
A 804Y			TB2-23D	52				.15	NO		48	
			J31-T	89				.25	NO			
A 805	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 805A	1		SHLD A805					.25	NO			
			J31-C*	89				.25	NO			
A 805B	1		J28-B5	77				.25	YES		47	
			SHLD A805					.25	NO			
A 805E			J31-B*	89				.25	NO			
			J28-A5	77				.25	YES		47	
A 806	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 806A	1		SHLD A806					.25	NO			
			E13	179				.25	NO			
A 806L			J28-D4	77				.25	YES		47	
			J31-J	89				.25	NO			
A 806R			J28-D3	77				.25	YES		47	
			J31-K	89				.25	NO			
A 807	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 807A	1		SHLD A807					.25	NO			
			E13	179				.25	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 830L			TB2-9D	44			.15		NO		48	
			J13-F	91			.25		NO			
A 830R			TB2-9B	44			.15		NO		48	
			J13-D	91			.25		NO			
A 830Y			TB2-10B	44			.15		NO		48	
			J13-E	91			.25		NO			
A 831	2		J19-C*	106			.25		NO			
			TB2-38B	62			.15		NO		48	
A 832	2		TB2-38D	61			.15		NO			
			J29-N1	76			.20		NO		46	
A 833	2		J18-G*	96			.25		NO			
			TB2-39B	64			.15		NO		48	
A 834	2		TB2-39D	63			.15		NO			
			J29-N2	76			.20		NO		46	

MIL 8064 4-69

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 & 2 FOR REVISION RECORD

SECTION D-D
T.P BREAKOUTS FOR TERM NOS 115 THRU 164 END OF ACCESSORIES ADJ TRUE POSITION +.25 -.12 INCH RELATIVE TO DATUM-Z.

SECTION C-C
TYPICAL

(SHEET 172, ZONE B-7)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	ACSP PN	WIRING HARNESS A
MATERIAL	DRAWN E. Evans DATE 5-16-67	
1902195-011 NEXT ASSY / 1902195-011 USED ON	CHECKED [illegible] DATE 5-17-67	
APPLICATION	APPROVAL [illegible] DATE 5-17-67	
CONTRACT NAS 9-497	APPROVAL [illegible] DATE 5-17-67	
	NASA APPROVAL [illegible] DATE 5-17-67	CODE IDENT NO / SIZE E / 1902255
	MIT APPROVAL [illegible] DATE 5-17-67	SCALE 1/1 / SHEET 171 OF 173

1902255 E

REVISIONS					
SYM	ZONE	DESCRIPTION -LRE-7222	CHG NO.	DATE	APPD
		SEE SHEET 1 & 2 FOR REVISION RECORD			

J5 REF
J14 REF
J13 REF
J16 REF
J32 REF
J12 REF
J31 REF
J11 REF
208 204 202 205 203
201 199 197 200 198
215 213 216 214 212
210 208 211 209 207

PARTIAL VIEW F-F

-Z-
KEYWAY 6 PLACES
85 2 REQD
86 8 REQD
F
B
E
PINAI TYP
.88 .12
-Y-
88A
88B

VIEW A-A
SH 171 ZONE B-3

MARKER SLEEVE LOCATED APPROXIMATELY AS SHOWN

TYP BREAKOUT FOR TERM NO.S 1 THRU 74.
END OF ACCESSORIES ARE TRUE POSITION +.25 -.12 INCH RELATIVE TO DATUM "Y".

J30 30
J29 31
J28 30
J27 29
J26 28
J25 27
J24 26
J23 25
J22 24
J21 23

75 76 77 78 79 80 81 82 83 84
73
74
71 69 67 65 63 61 59 57 55 53 51 49 47 45 43 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 6 3 1
72 70 66 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2
88 87 86 85
14 77
12 75
41 74
18 76

PARTIAL VIEW B-B

4.25 MAX
1.38
1.12

SECTION E-E

1902195-011 NEXT ASSY	1902195-011 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
APPLICATION		DO NOT SCALE THIS DRAWING	ACSP PN		
		MATERIAL	DRAWN BY S. Payne DATE 5 MAR 65	WIRING HARNESS A	
		CONTRACT NAS 9-497	CHECKED Hayden 27 APR 65		
			APPROVAL G.E. Hall 27 APR 65		
			APPROVAL [illegible]		
			NASA APPROVAL [illegible]	CODE IDENT NO	SIZE E 1902255
			MIT APPROVAL [illegible]	SCALE FULL	SHEET 173 OF 173

1902255 E

1805533

APPLICATION		REVISIONS TDRR 17842			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902195-011	1902195-011	D	REPLACES REVISION C WITH CHANGE PER TDRR 19871	13 MAY 65	DKD
		E	REVISED PER TDRR 21042	16 JUL 65	LK
		(M) F	REVISED PER TDRR 21888	15 SEP 65	JNP
		G	REVISED PER TDRR 23794	10 NOV 65	ELP

(D) REPLACES REV(C) WITH CHANGE

REV	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
SHEET	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
REV STATUS OF SHEETS	REV							G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	SHEET							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN S. Agne DATE 15 MAR 65
CHECKED [signature] 27 APR 65
APPROVAL [signature] 29 APR 65
APPROVAL [signature] 6-1-65

WIRING HARNESS A

NASA APPROVAL [signature] 6/1/65
MIT APPROVAL [signature] 6-8-65

CONTRACT NAS 9-497

CODE IDENT NO. | SIZE | 1902255 | REV G

SCALE 1/1 | SHEET 1 OF 174

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
46	G	82	G	118	G	154	G								
47	G	83	G	119	G	155	G								
48	G	84	G	120	G	156	G								
49	G	85	G	121	G	157	G								
50	G	86	G	122	G	158	G								
51	G	87	G	123	G	159	G								
52	G	88	G	124	G	160	G								
53	G	89	G	125	G	161	G								
54	G	90	G	126	G	162	G								
55	G	91	G	127	G	163	G								
56	G	92	G	128	G	164	G								
57	G	93	G	129	G	165	G								
58	G	94	G	130	G	166	G								
59	G	95	G	131	G	167	G								
60	G	96	G	132	G	168	G								
61	G	97	G	133	G	169	G								
62	G	98	G	134	G	170	G								
63	G	99	G	135	G	171	G								
64	G	100	G	136	G	172	G								
65	G	101	G	137	G	173	G								
66	G	102	G	138	G	174	G								
67	G	103	G	139	G										
68	G	104	G	140	G										
69	G	105	G	141	G										
70	G	106	G	142	G										
71	G	107	G	143	G										
72	G	108	G	144	G										
73	G	109	G	145	G										
74	G	110	G	146	G										
75	G	111	G	147	G										
76	G	112	G	148	G										
77	G	113	G	149	G										
78	G	114	G	150	G										
79	G	115	G	151	G										
80	G	116	G	152	G										
81	G	117	G	153	G										

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION G

NASA DRAWING NO. 1902255
SHEET 2 OF 174

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER---- A - ND1002206 B - ND1002032 C - ND1002071
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
4	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 36, OR 37 AND 38.
5	MARK LEAD IDENTIFICATION PER ND1002019.
6	UNLESS OTHERWISE SPECIFIED MARK LEAD IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES-267).
8	FASTEN MARKER SECURELY WITH ITEM 39. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
9	MARK SLEEVING WITH THE LEAD IDENTIFICATION .03/.12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A IN THE ACCESSORIES ITEM NUMBER FIELD.
10	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
11	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
12	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF CONDUCTORS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE
13	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
14	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
15	THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY K - WHITE WITH LETTER K L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER. R - WHITE WITH LETTER R OR WHITE WITH RED TRACER W - WHITE OR WHITE WITH LETTER W X - COAX OUTER CONDUCTOR Y - WHITE WITH LETTER Y OR WHITE WITH YELLOW TRACER.
16	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 39.
17	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
18	MARK INDIVIDUAL LEADS WITH LEAD IDENTIFICATION AND SUFFIX SHOWN IN LEAD CHART AND TWIST TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS
19	USE A SHORT LENGTH OF WIRE ND1002181 AWG 20 OR 22 AS CONTACT BARREL. REMOVE INSULATION BEFORE INSERTION. AFTER CRIMP, CLIP EXCESS AND DISCARD.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902255-001	WIRE, ND1002181 TYPE 1, CLASS 1, AWG22 WHT 600 FT TOTAL LENGTH
	2	1	1902255-002	WIRE, ND1002181 TYPE 1, CLASS 1, AWG20 WHT 620 FT TOTAL LENGTH
	3	1	1902255-003	WIRE, ND1002181 TYPE 1, CLASS 1, AWG18 WHT 3.5 FT TOTAL LENGTH
	4	1	1902255-004	WIRE, ND1002181 TYPE 1, CLASS 1, AWG16 WHT 26 FT TOTAL LENGTH
	5	1	1902255-005	WIRE, ND1002181 TYPE 1, CLASS 4, WHT JACKET AWG22 WHT 56 FT TOTAL LENGTH
	6	1	1902255-006	WIRE, ND1002181 TYPE 1, CLASS 4, WHT JACKET AWG20 WHT 14 FT TOTAL LENGTH
	7	1	1902255-007	COAX RG188/U PER MIL-C-17 200 FT TOTAL LENGTH
	8	1	1902255-008	WIRE, TWO CONDUCTOR 105 FT TOTAL LENGTH. MAKE FROM WIRE, ND1002181 TYPE 1, CLASS 1, AWG22 WHT SEE NOTE 18.
	9	1	1902255-009	WIRE, TWO CONDUCTOR 44 FT TOTAL LENGTH. MAKE FROM WIRE, ND1002181 TYPE 1, CLASS 1, AWG20 WHT SEE NOTE 18
	10	1	1902255-010	WIRE, ND1002181 TYPE 2, CLASS 4, WHT JACKET, AWG22, WHT/BLU, WHT/RED 390 FT TOTAL LENGTH
	11	1	1902255-011	WIRE, ND1002181 TYPE 2, CLASS 4, WHT JACKET, AWG20, WHT/BLU, WHT/RED 70 FT TOTAL LENGTH

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	12	1	1902255-012	WIRE, FOUR CONDUCTOR, 17 FT TOTAL LENGTH. MAKE FROM WIRE, ND1002181 TYPE 1, CLASS 1, AWG20 WHT SEE NOTE 18.
	13	1	1902255-013	WIRE, THREE CONDUCTOR, 26 FT TOTAL LENGTH. MAKE FROM WIRE ND1002181 TYPE 1, CLASS 1, AWG22 WHITE SEE NOTE 18
	14	1	1902255-014	WIRE, THREE CONDUCTOR, 13 FT TOTAL LENGTH. MAKE FROM WIRE ND1002181 TYPE 1, CLASS 1, AWG20 WHT. SEE NOTE 18.
	15	1	1902255-015	WIRE, ND1002181 TYPE 3, CLASS 4 WHT JACKET AWG22 WHT/BLU, WHT/RED, WHT/YEL 50 FT TOTAL LENGTH
	16	1	1902255-016	WIRE, ND1002181, TYPE 3, CLASS 4, WHT JACKET AWG20 WHT/BLU, WHT/RED, WHT/YEL 28 FT TOTAL LENGTH
19	17	1	1902255-017	WIRE, 1010707-001, MICRODOT, THREE CONDUCTOR SHIELDED 20 FT TOTAL LENGTH
	18	1	1902255-018	WIRE, FOUR CONDUCTOR 7 FT TOTAL LENGTH MAKE FROM WIRE ND1002181 TYPE 1, CLASS 1, AWG22 WHT. SEE NOTE 18.
17	19	1	MS3127E24-61PW	(1897055-611) CONNECTOR RECEPTACLE ELEC
17	20	1	MS3127E24-61S	(1897056-610) CONNECTOR RECEPTACLE ELEC
17	21	1	MS3127E24-61SW	(1897056-611) CONNECTOR RECEPTACLE ELEC
	22	1	MS3102R28-20PW	(1896862-201) CONNECTOR RECEPTACLE ELEC
	23	1	1902080- 1	CONNECTOR RECEPTACLE ELEC

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 7 OF 174

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	24	1	1902080- 2	CONNECTOR RECEPTACLE ELEC
	25	1	1902080- 3	CONNECTOR RECEPTACLE ELEC
	26	1	1902080- 4	CONNECTOR RECEPTACLE ELEC
	27	1	1902080- 6	CONNECTOR RECEPTACLE ELEC
	28	1	1902080- 7	CONNECTOR RECEPTACLE ELEC
	29	1	1902080- 8	CONNECTOR RECEPTACLE ELEC
	30	1	1902080- 9	CONNECTOR RECEPTACLE ELEC
	31	1	1902080- 10	CONNECTOR RECEPTACLE ELEC
	32	1	1902080- 11	CONNECTOR RECEPTACLE ELEC
	33	1	MS3127E24-61SZ	(1897056-614) CONNECTOR RECEPTACLE ELEC
14	35	1	1016128-011	BAND IDENTIFICATION
	36	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	37	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	38	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	39	AR	MIL-T-713	TYPE P LACING TAPE (ES2732 NO. 18)
14	40	49	1015908-021	CONTACT COAXIAL, SOCKET
14	41	49	1015908-041	CONTACT COAXIAL, OUTER MALE BODY
14	42	49	1015908-051	CONTACT COAXIAL, HYRING

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 8 OF 174

MIL 2084 9-85

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
14	43	21	1015864-135	INSULATION SLEEVING ELEC
14	44	30	1015864-109	INSULATION SLEEVING ELEC
14	45	25	1015864-167	INSULATION SLEEVING ELEC
14	46	467	1016113-011	CONNECTOR CONTACT
14	47	202	1015864-168	INSULATION SLEEVING ELEC
14	48	338	1015966-003	CONTACT TERMINAL TIP
14	49	394	1015966-001	CONTACT TERMINAL TIP
14	50	94	1015902-049	TERMINAL LUG
14	51	6	1015902-050	TERMINAL LUG
14	52	100	1000242-002	FERRULE ELEC (OUTER)
14	53	100	1000243-003	FERRULE ELEC (INNER)
14	54	4	1000242-004	FERRULE ELEC (OUTER)
14	55	4	1000243-005	FERRULE ELEC (INNER)
14	56	146	1000242-007	FERRULE ELEC (OUTER)
14	57	146	1000243-008	FERRULE ELEC (INNER)
14	58	25	1000242-009	FERRULE ELEC (OUTER)
14	59	46	1000243-011	FERRULE ELEC (INNER)
14	60	8	1000243-015	FERRULE ELEC (INNER)

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 9 OF 174

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
14	61	8	1000242-016	FERRULE ELEC (OUTER)
14	62	16	1010490-196	INSULATION SLEEVING ELEC HEAT SHRINK
14	63	550	1010490-198	INSULATION SLEEVING ELEC HEAT SHRINK
14	64	6	1010763-002	SLEEVE, SOLDER
14	65	21	1000242-011	FERRULE ELEC (OUTER)
14	66	5	1015864-108	INSULATION SLEEVING, ELEC.
14	67	10	1010490-200	INSULATION SLEEVING ELEC HEAT SHRINK
14	68	10	1016006-003	SPLICE REDUCER
14	69	7	1016284-001	SPLICER
14	70	10	1016006-001	SPLICE REDUCER
14	71	10	1016006-002	SPLICE REDUCER
14	72	10	1010490-258	INSULATION SLEEVING ELEC HEAT SHRINK
14	73	10	1010490-256	INSULATION SLEEVING ELEC HEAT SHRINK
17	74	1	MS3127E18-32S	(1897122-320) CONNECTOR RECEPTACLE ELEC.
17	75	1	MS3127E18-32SX	(1897122-322) CONNECTOR RECEPTACLE ELEC.
17	76	1	MS3127E18-32SY	(1897122-323) CONNECTOR RECEPTACLE ELEC.
17	77	1	MS3127E18-32SZ	(1897122-324) CONNECTOR RECEPTACLE ELEC.
17	78	1	MS3127E22-55SY	(1897054-553) CONNECTOR RECEPTACLE ELEC.

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 10 OF 174

MIL 2084 9-85

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
17	79	1	MS3127E24-61SX	(1897056-612) CONNECTOR RECEPTACLE ELEC.
17	80	2	MS3127E24-61SY	(1897056-613) CONNECTOR RECEPTACLE ELEC.
17	81	1	MS3127E24-61PY	(1897055-613) CONNECTOR RECEPTACLE ELEC
17	82	1	MS3127E24-61PX	(1897055-612) CONNECTOR RECEPTACLE ELEC
	83	1	MS3102R28-20P	(1896862-200) CONNECTOR RECEPTACLE ELEC
17	84	1	MS3127E24-61P	(1897055-610) CONNECTOR RECEPTACLE ELEC
	85	2	1900899	ADAPTER, CONNECTOR
14	86	8	1006783-23	SCREW
14	87	15	1010490-148	INSULATION SLEEVING ELEC. HEAT SHRINK
14	88	18	1015846-110	INSULATION SLEEVING ELEC.

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 11 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1 15				3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A	1A 1		SHLD A1 J13-A	 91				.25 .25	NO NO			
A	1B 1		J25-C1 SHLD A1	80				.25 .25	YES NO		47	
A	1L		J13-L J25-D1	91 80				.25 .25	NO YES		47	
A	1R		J13-K J25-C2	91 80				.25 .25	NO YES		47	
A	1Y		J13-M J25-C1	91 80				.25 .25	NO YES			
A	2 15				3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A	2A 1		SHLD A2 J13-S	 91				.25 .25	NO NO			
A	2B 1		J25-F2 SHLD A2	80				.25 .25	YES NO		47	
A	2L		J13-H J25-D2	91 80				.25 .25	NO YES		47	
A	2R		J13-G J25-F1	91 80				.25 .25	NO YES		47	
A	2Y		J13-J J25-F2	91 80				.25 .25	NO YES			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 12 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3 15				3.25 2.25	3.00 2.00				A,5 A,5	59, 65, 63 59, 65, 63	
A	3A 1		SHLD A3 J13-T	 91				.25 .25	NO NO			
A	3B 1		J25-D3 SHLD A3	80				.25 .25	YES NO		47	
A	3L		J13-P J25-C3	91 80				.25 .25	NO YES		47	
A	3R		J13-N J25-D4	91 80				.25 .25	NO YES		47	
A	3Y		J13-R J25-D3	91 80				.25 .25	NO YES			
A	4 7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	4B 1		TB1-40A SHLD A4	26				.15 .25	NO NO		49	
A	4E		J10-E1 TB1-39A	97 26				.15 .15	NO NO		40 49	
A	4X		J10-E2 SHLD A4	97								
A	5 7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	5B 1		TB1-40B SHLD A5	26				.15 .25	NO NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 13 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	5E		J10-F1 TB1-39B	97 26				.15 .15	NO NO		40 49	
A	5X		J10-F2 SHLD A5	97								
A	6 7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	6B 1		TB1-40C SHLD A6	26				.15 .25	NO NO		49	
A	6E		J9-A1 TB1-39C	107 26				.15 .15	NO NO		40 49	
A	6X		J9-A2 SHLD A6	107								
A	7 7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A	7B 1		TB1-40D SHLD A7	26				.15 .25	NO NO		49	
A	7E		J9-B1 TB1-39D	107 26				.15 .15	NO NO		40 49	
A	7X		J9-B2 SHLD A7	107								
A	8 8											
A	8L		TB1-39B J25-C4	25 80				.15 .25	NO YES		49 47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 14 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	8R		TB1-39A	25				.15	NO		49	
			J25-B4	80				.25	YES		47	
A	9	8										
A	9L		TB1-39D	25				.15	NO		49	
			J25-C5	80				.25	YES		47	
A	9R		TB1-39C	25				.15	NO		49	
			J25-B5	80				.25	YES		47	
A	10	1	TB1-40A	25				.15	NO		49	
			J25-A5	80				.25	YES		47	
A	11	8										
A	11L		J25-A4	80				.25	YES		47	
			E2	187				.25	NO			
A	11R		J25-A5	80				.25	YES			
			E1	173				.25	NO			
A	12	8										
A	12L		E2	187				.25	NO			
			J26-B2	79				.25	YES		47	
A	12R		E1	173				.25	NO			
			J26-B1	79				.25	YES		47	
A	13	15			2.25	2.00				B,7	63	
					3.25	3.00				A,4	59, 65, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 15 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13B	1	E27	189				.25	NO			
			SHLD A13					.25	NO			
A	13L		J26-A1	79				.25	YES		47	
			J13-R*	91				.25	NO			
A	13R		J26-B1	79				.25	YES			
			J13-S*	91				.25	NO			
A	13Y		J26-A2	79				.25	YES		47	
			J13-T*	91				.25	NO			
A	14	7			.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A	14B	1	TB1-42A	28				.15	NO		49	
			SHLD A14					.25	NO			
A	14E		J10-G1	97				.15	NO		40	
			TB1-41A	28				.15	NO		49	
A	14X		J10-G2	97								
			SHLD A14									
A	15	7			.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A	15B	1	TB1-42B	28				.15	NO		49	
			SHLD A15					.25	NO			
A	15E		J10-J1	97				.15	NO		40	
			TB1-41B	28				.15	NO		49	
A	15X		J10-J2	97								
			SHLD A15									

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 16 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	16	7			.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A	16B	1	TB1-42C	28				.15	NO		49	
			SHLD A16					.25	NO			
A	16E		J9-G1	107				.15	NO		40	
			TB1-41C	28				.15	NO		49	
A	16X		J9-G2	107								
			SHLD A16									
A	17	7			.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A	17B	1	TB1-42D	28				.15	NO		49	
			SHLD A17					.25	NO			
A	17E		J9-D1	107				.15	NO		40	
			TB1-41D	28				.15	NO		49	
A	17X		J9-D2	107								
			SHLD A17									
A	18	8										
A	18L		TB1-41B	27				.15	NO		49	
			J25-C6	80				.25	YES		47	
A	18R		TB1-41A	27				.15	NO		49	
			J25-B6	80				.25	YES		47	
A	19	1	TB1-42A	27				.15	NO		49	
			J25-A7	80				.25	YES		47	

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 17 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	20	8										
A	20L		J25-A6	80				.25	YES		47	
			E4	184				.25	NO			
A	20R		J25-A7	80				.25	YES			
			E3	174				.25	NO			
A	21	8										
A	21L		E4	184				.25	NO			
			J26-B4	79				.25	YES		47	
A	21R		E3	174				.25	NO			
			J26-B3	79				.25	YES		47	
A	22	15			2.25	2.00				B,7	63	
					3.25	3.00				A,4	59, 65, 63	
A	22B	1	E27	189				.25	NO			
			SHLD A22					.25	NO			
A	22L		J26-A3	79				.25	YES		47	
			J13-B8	91				.25	NO			
A	22R		J26-B3	79				.25	YES			
			J13-C8	91				.25	NO			
A	22Y		J26-A4	79				.25	YES		47	
			J13-D8	91				.25	NO			
A	23	7			.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 18 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	1		T81-44A SHLD A23	28				.15 .25	NO NO		49	
A 23E			J10-K1 T81-43A	97 28				.15 .15	NO NO		40 49	
A 23X			J10-K2 SHLD A23	97								
A 24	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 24B	1		T81-44B SHLD A24	28				.15 .25	NO NO		49	
A 24E			J10-H1 T81-43B	97 28				.15 .15	NO NO		40 49	
A 24X			J10-H2 SHLD A24	97								
A 25	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 25B	1		T81-44C SHLD A25	28				.15 .25	NO NO		49	
A 25E			J9-E1 T81-43C	107 28				.15 .15	NO NO		40 49	
A 25X			J9-E2 SHLD A25	107								
A 26	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 19 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26B	1		T81-44D SHLD A26	28				.15 .25	NO NO		49	
A 26E			J9-F1 T81-43D	107 28				.15 .15	NO NO		40 49	
A 26X			J9-F2 SHLD A26	107								
A 27	8											
A 27L			T81-43B J25-C8	27 80				.15 .25	NO YES		49 47	
A 27R			T81-43A J25-B8	27 80				.15 .25	NO YES		49 47	
A 28	8											
A 28L			T81-41D J25-C7	27 80				.15 .25	NO YES		49 47	
A 28R			T81-41C J25-B7	27 80				.15 .25	NO YES		49 47	
A 29	8											
A 29L			T81-43D J25-C9	27 80				.15 .25	NO YES		49 47	
A 29R			T81-43C J25-B9	27 80				.15 .25	NO YES		49 47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 20 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30	1		T81-44A J25-A9	29 80				.15 .25	NO YES		49 47	
A 31	8											
A 31L			J25-A8 E6	80 186				.25 .25	YES NO		47	
A 31R			J25-A9 E5	80 185				.25 .25	YES NO			
A 32	8											
A 32L			E6 J26-B6	186 79				.25 .25	NO YES		47	
A 32R			E5 J26-B5	185 79				.25 .25	NO YES		47	
A 33	15				2.25 3.25	2.00 3.00				B,7 A,4	63 59, 65, 63	
A 33B	1		E27 SHLD A33	189				.25 .25	NO NO			
A 33L			J26-A5 J13-LL	79 91				.25 .25	YES NO		47	
A 33R			J26-B5 J13-MM	79 91				.25 .25	YES NO			
A 33Y			J26-A6 J13-NN	79 91				.25 .25	YES NO		47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 21 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34	1		J14-B8 J25-H4	111 80				.25 .20	NO NO		 46	
A 35	1		J25-H4 J26-L1	80 79				.20 .20	NO NO		 46	
A 36	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 36B	1		E20 SHLD A36	169				.25 .25	NO NO			
A 36W			J25-L4 J23-D1	80 82				.20 .20	NO NO		46 46	
A 37	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 37B	1		E20 SHLD A37	169				.25 .25	NO NO			
A 37W			J25-M4 J23-F1	80 82				.20 .20	NO NO		46 46	
A 38	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 38B	1		E20 SHLD A38	169				.25 .25	NO NO			
A 38W			J25-L3 J23-D3	80 82				.20 .20	NO NO		46 46	
A 39	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 22 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 39B	1		E20 SHLD A39	169				.25 NO .25 NO				
A 39W			J25-M3 J23-F3	80 82				.20 NO .20 NO			46 46	
A 40	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 40B	1		E19 SHLD A40	172				.25 NO .25 NO				
A 40W			J25-L2 J24-F6	80 81				.20 NO .20 NO			46 46	
A 41	5				2.25 2.25	2.00 2.00				B,7 A,4	63 53, 52, 63	
A 41B	1		E19 SHLD A41	172				.25 NO .25 NO				
A 41W			J25-M2 J24-G6	80 81				.20 NO .20 NO			46 46	
A 42	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 42B	1		TB1-46A SHLD A42	30				.15 NO .25 NO			49	
A 42E			J8-E1 TB1-45A	94 30				.15 NO .15 NO			40 49	
A 42X			J8-E2 SHLD A42	94								

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 23 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 43	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 43B	1		TB1-46B SHLD A43	30				.15 NO .25 NO			49	
A 43E			J8-F1 TB1-45B	94 30				.15 NO .15 NO			40 49	
A 43X			J8-F2 SHLD A43	94								
A 44	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 44B	1		TB1-46C SHLD A44	30				.15 NO .25 NO			49	
A 44E			J8-G1 TB1-45C	94 30				.15 NO .15 NO			40 49	
A 44X			J8-G2 SHLD A44	94								
A 45	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 45B	1		TB1-46D SHLD A45	30				.15 NO .25 NO			49	
A 45E			J8-J1 TB1-45D	94 30				.15 NO .15 NO			40 49	
A 45X			J8-J2 SHLD A45	94								

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 24 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 46B	1		TB1-46A SHLD A46	31				.15 NO .25 NO			49	
A 46E			J8-K1 TB1-47A	94 31				.15 NO .15 NO			40 49	
A 46X			J8-K2 SHLD A46	94								
A 47	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 47B	1		TB1-46B SHLD A47	31				.15 NO .25 NO			49	
A 47E			J8-H1 TB1-47B	94 31				.15 NO .15 NO			40 49	
A 47X			J8-H2 SHLD A47	94								
A 48	8											
A 48L			TB1-45B J25-M6	29 80				.15 NO .20 NO			49 46	
A 48R			TB1-45A J25-M5	29 80				.15 NO .20 NO			49 46	
A 49	8											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 25 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49L			TB1-45D J25-K6	29 80				.15 NO .20 NO			49 46	
A 49R			TB1-45C J25-L6	29 80				.15 NO .20 NO			49 46	
A 50	8											
A 50L			TB1-47B J25-K4	32 80				.15 NO .20 NO			49 46	
A 50R			TB1-47A J25-K5	32 80				.15 NO .20 NO			49 46	
A 51	2		TB1-46C J25-L5	29 80				.15 NO .20 NO			48 46	
A 52	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 52A	1		SHLD A52 E23	166				.25 NO .25 NO				
A 52L			J1-Z J25-D7	86 80				.25 NO .25 YES			47	
A 52R			J1-Y J25-D8	86 80				.25 NO .25 YES			47	
A 53	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 53B	1		E19 SHLD A53	172				.25 NO .25 NO				

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 26 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 53L			J11-H*	114				.25	NO			
			J25-D7	80				.25	YES			
A 53R			J11-I*	114				.25	NO			
			J25-F7	80				.25	YES		47	
A 54	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 54A	1		SHLD A54					.25	NO			
			E23	166				.25	NO			
A 54L			J1-K	86				.25	NO			
			J25-F9	80				.25	YES		47	
A 54R			J1-J	86				.25	NO			
			J25-F8	80				.25	YES		47	
A 55	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 55B	1		E19	172				.25	NO			
			SHLD A55					.25	NO			
A 55L			J11-U*	114				.25	NO			
			J25-F9	80				.25	YES			
A 55R			J11-V*	114				.25	NO			
			J25-D9	80				.25	YES		47	
A 56	1		J21-L4	84				.20	NO		46	
			J22-K3	83				.20	NO		46	
A 57	1		J22-K3	83				.20	NO			
			J23-C6	82				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 27 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	1		J23-C6	82				.20	NO			
			J24-H5	81				.20	NO		46	
A 59	1		J24-H5	81				.20	NO			
			J25-K3	80				.20	NO		46	
A 60	1		J25-K3	80				.20	NO			
			TB3-2V	140				.25	NO		50	
A 61	1		J26-N4	79				.20	NO		46	
			J27-L6	78				.20	NO		46	
A 62	1		J27-L6	78				.20	NO		46	
			J28-P4	77				.20	NO		46	
A 63	1		J28-P4	77				.20	NO			
			J29-R4	76				.20	NO		46	
A 64	1		J29-R4	76				.20	NO			
			J30-M4	75				.20	NO		46	
A 65	1		J14-EE	111				.25	NO			
			J25-S1	80				.20	NO		46	
A 66	1		J25-S1	80				.20	NO			
			J26-L2	79				.20	NO		46	
A 67	1		J14-AA	111				.25	NO			
			J25-S3	80				.20	NO		46	
A 68	2		J14-J*	111				.25	NO			
			J25-B3	80				.25	YES		47	
A 69	2		J25-B3	80				.25	YES			
			F31	183				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 28 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70	1		J14-Z*	111				.25	NO			
			J25-A3	80				.25	YES		47	
A 71	2		J12-M*	113				.25	NO			
			J25-R6	80				.20	NO		46	
A 72	9											
A 72L			J22-P5	83				.20	NO		46	
			TB1-14A	7				.15	NO		48	
A 72R			J22-N5	83				.20	NO		46	
			TB1-13A	7				.15	NO		48	
A 73	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 73B	1		E21	167				.25	NO			
			SHLD A73					.25	NO			
A 73L			J12-J*	113				.25	NO			
			TB1-14A	8				.15	NO		49	
A 73R			J12-I*	113				.25	NO			
			TB1-13A	8				.15	NO		49	
A 74	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 74B	1		E21	167				.25	NO			
			SHLD A74					.25	NO			
A 74L			J12-K	113				.25	NO			
			TB1-14B	7				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 29 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			J12-V	113				.25	NO			
			TB1-13B	7				.15	NO		49	
A 75	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 75B	1		E21	167				.25	NO			
			SHLD A75					.25	NO			
A 75L			J14-G*	111				.25	NO			
			TB1-14C	8				.15	NO		49	
A 75R			J14-F*	111				.25	NO			
			TB1-13B	8				.15	NO		49	
A 76	10				2.25	2.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 76B	1		E21	167				.25	NO			
			SHLD A76					.25	NO			
A 76L			J25-N5	80				.20	NO		46	
			TB1-14D	7				.15	NO		49	
A 76R			J25-N6	80				.20	NO		46	
			TB1-13C	7				.15	NO		49	
A 77	9											
A 77L			J22-P3	83				.20	NO		46	
			TB1-16A	9				.15	NO		48	
A 77R			J22-N3	83				.20	NO		46	
			TB1-15A	9				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 30 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 78	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 78B	1		E21 SHLD A78	167				.25 .25	NO NO			
A 78L			J12-U TB1-16A	113 10				.25 .15	NO NO		48	
A 78R			J12-T TB1-15A	113 10				.25 .15	NO NO		48	
A 79	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 79B	1		E21 SHLD A79	167				.25 .25	NO NO			
A 79L			J14-1* TB1-16D	111 10				.25 .15	NO NO		49	
A 79R			J14-H* TB1-15D	111 10				.25 .15	NO NO		49	
A 80	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 80B	1		E21 SHLD A80	167				.25 .25	NO NO			
A 80L			J25-P5 TB1-16B	80 10				.20 .15	NO NO		46 49	
A 80R			J25-P6 TB1-15B	80 10				.20 .15	NO NO		46 49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 31 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 81	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 81B	1		E21 SHLD A81	167				.25 .25	NO NO			
A 81L			J26-S3 TB1-16C	79 10				.20 .15	NO NO		46 49	
A 81R			J26-S4 TB1-15C	79 10				.20 .15	NO NO		46 49	
A 82	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 82A	1		SHLD A82 E16	176				.25 .25	NO NO			
A 82L			J26-P4 J1-B	79 86				.20 .25	NO NO		46	
A 82R			J26-S4 J1-A	79 86				.20 .25	NO NO			
A 83	8											
A 83L			J21-N4 TB1-16B	84 9				.20 .15	NO NO		46 49	
A 83R			J21-N5 TB1-15B	84 9				.20 .15	NO NO		46 49	
A 84	11				2.25 2.25	2.00 2.00				B,7 A,4	63 59, 58, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 32 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 84B	1		E21 SHLD A84	167				.25 .25	NO NO			
A 84L			J30-F8 TB1-16C	75 9				.25 .15	YES NO		47 48	
A 84R			J30-F9 TB1-15C	75 9				.25 .15	YES NO		47 48	
A 85	2		J30-M1 TB2-41A	75 63				.20 .15	NO NO		46 48	
A 86	2		J30-M2 TB2-41B	75 63				.20 .15	NO NO		46 48	
A 87	2		J30-N1 TB2-41B	75 64				.20 .15	NO NO		46 48	
A 88	2		J30-N2 TB2-41C	75 63				.20 .15	NO NO		46 48	
A 89	2		J30-L1 TB2-43B	75 66				.20 .15	NO NO		46 48	
A 90	2		J30-L2 TB2-43C	75 65				.20 .15	NO NO		46 48	
A 92	2		TB2-42D TB2-43A	66 66				.15 .15	NO NO		48 48	
A 93	2		J3-H* TB2-43C	85 66				.25 .15	NO NO		48	
A 94	2		J2-D TB2-42C	87 66				.25 .15	NO NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 33 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	2		J12-PP TB2-41D	113 63				.25 .15	NO NO		48	
A 96	2		TB2-41A TB1-1B	64 2				.15 .15	NO NO		48 48	
A 97	2		TB2-42A TB1-1C	66 2				.15 .15	NO NO		48 48	
A 98	2		J21-S1 TB1-1A	84 1				.20 .15	NO NO		46 48	
A 99	2		J21-S2 TB1-1B	84 1				.20 .15	NO NO		46 48	
A 100	2		J21-S4 TB1-1C	84 1				.20 .15	NO NO		46 48	
A 101	2		J21-S5 TB1-1D	84 1				.20 .15	NO NO		46 48	
A 102	2		TB2-41D TB1-17B	64 12				.15 .15	NO NO		48 48	
A 103	2		TB2-41C TB1-17C	64 12				.15 .15	NO NO		48 48	
A 106	2		TB1-17B J22-S1	11 83				.15 .20	NO NO		48 46	
A 107	2		TB1-17C J22-S2	11 83				.15 .20	NO NO		48 46	
A 108	2		TB1-17A J22-S3	11 83				.15 .20	NO NO		48 46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 34 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	2		TB1-17D	11				.15	NO		48	
			J22-S4	83				.20	NO		46	
A 110	2		TB2-42B	65				.15	NO		48	
			J22-S5	83				.20	NO		46	
A 111	2		TB2-43D	65				.15	NO		48	
			J23-S6	82				.20	NO		46	
A 112	2		TB2-42A	65				.15	NO		48	
			J24-S6	81				.20	NO		46	
A 113	2		TB2-42C	65				.15	NO		48	
			J25-S2	80				.20	NO		46	
A 114	2		TB2-43A	65				.15	NO		48	
			J25-S6	80				.20	NO		46	
A 115	2		TB2-43B	65				.15	NO		48	
			J26-S2	79				.20	NO		46	
A 116	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 116A	1		SHLD A116					.25	NO			
			E24	165				.25	NO			
A 116W			J3-A	85				.25	NO			
			TB3-3D	148				.15	NO		48	
A 117	5				2.25	2.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 117A	1		SHLD A117					.25	NO			
			E30	195				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 35 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 117W			TB3-3D	131				.15	NO		49	
			J25-B1	80				.25	YES		47	
A 118	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 118A	1		SHLD A118					.25	NO			
			E24	165				.25	NO			
A 118W			J3-B	85				.25	NO			
			TB3-3B	148				.15	NO		48	
A 119	5				2.25	2.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 119A	1		SHLD A119					.25	NO			
			E30	195				.25	NO			
A 119W			TB3-3B	131				.15	NO		49	
			J25-A1	80				.25	YES		47	
A 120	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 120B	1		F12	196				.25	NO			
			SHLD A120					.25	NO			
A 120L			J11-FF	114				.25	NO			
			TB3-4C	148				.15	NO		49	
A 120R			J11-EE	114				.25	NO			
			TB3-3C	148				.15	NO		49	
A 121	10				3.25	3.00				B,7	63	
					2.25	2.00				A,7	57, 56, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 36 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121B	1		E12	196				.25	NO			
			SHLD A121					.25	NO			
A 121L			J11-KK	114				.25	NO			
			TB3-4D	148				.15	NO		49	
A 121R			J11-JJ	114				.25	NO			
			TB3-3A	148				.15	NO		49	
A 122	2		TB3-4D	131				.15	NO		48	
			J25-R2	80				.20	NO		46	
A 123	2		TB3-18H	162				.25	NO		50	
			TB3-4A	148				.15	NO		48	
A 124	2		TB3-18Y	155				.25	NO		50	
			TB3-4B	148				.15	NO		48	
A 125	2		TB3-4A	131				.15	NO		48	
			TB3-5D	130				.15	NO		48	
A 126	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 126B	1		E12	196				.25	NO			
			SHLD A126					.25	NO			
A 126L			J11-LL	114				.25	NO			
			TB3-6D	149				.15	NO		49	
A 126R			J11-MM	114				.25	NO			
			TB3-5D	149				.15	NO		49	
A 127	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 37 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 127B	1		E12	196				.25	NO			
			SHLD A127					.25	NO			
A 127L			J11-GG	114				.25	NO			
			TB3-6C	149				.15	NO		49	
A 127R			J11-HH	114				.25	NO			
			TB3-5B	149				.15	NO		49	
A 128	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 128B	1		E12	196				.25	NO			
			SHLD A128					.25	NO			
A 128L			J11-NN	114				.25	NO			
			TB3-6B	149				.15	NO		49	
A 128R			J11-PP	114				.25	NO			
			TB3-5A	149				.15	NO		49	
A 129	19											
A 129K			J3-V	85				.25	NO			
			TB3-5A	130				.15	NO		48	
A 129L			J3-U	85				.25	NO			
			TB3-6C	130				.15	NO		48	
A 129R			J3-C	85				.25	NO			
			TB3-6B	130				.15	NO		48	
A 129Y			J3-W	85				.25	NO			
			TB3-6D	130				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 38 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 130	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 130A	1		SHLD A130 E26	 192				.25 NO .25 NO				
A 130L			J14-NN J26-F1	111 79				.25 NO .25 YES			 47	
A 130R			J14-MM J26-D1	111 79				.25 NO .25 YES			 47	
A 131	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 131A	1		SHLD A131 E27	 189				.25 NO .25 NO				
A 131L			J13-Q* TB1-2D	91 2				.25 NO .15 NO			 49	
A 131R			J13-P* TB1-2B	91 2				.25 NO .15 NO			 49	
A 132	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 132A	1		SHLD A132 E27	 189				.25 NO .25 NO				
A 132L			J13-N* J26-D2	91 79				.25 NO .25 YES			 47	
A 132R			J13-M* J26-C1	91 79				.25 NO .25 YES			 47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 39 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 133A	1		SHLD A133 E22	 170				.25 NO .25 NO				
A 133L			TB1-2C J26-G2	2 79				.15 NO .25 YES			49	
A 133R			TB1-2A J26-G2	2 79				.15 NO .25 YES			49 47	
A 134	8											
A 134L			TB1-2C J21-B1	1 84				.15 NO .20 NO			49 46	
A 134R			TB1-2B J21-A1	1 84				.15 NO .20 NO			49 46	
A 135	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 135A	1		SHLD A135 E22	 170				.25 NO .25 NO				
A 135L			J21-C1 J3-H	84 85				.20 NO .25 NO			46	
A 135R			J21-B1 J3-J	84 85				.20 NO .25 NO				
A 136	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 40 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 136A	1		SHLD A136 E16	 176				.25 NO .25 NO				
A 136M			J26-M2 J22-H5	79 83				.20 NO .20 NO			46 46	
A 137	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 137A	1		SHLD A137 E27	 189				.25 NO .25 NO				
A 137L			J13-Z* J26-F3	91 79				.25 NO .25 YES			 47	
A 137R			J13-Y* J26-D3	91 79				.25 NO .25 YES			 47	
A 138	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 138A	1		SHLD A138 E27	 189				.25 NO .25 NO				
A 138L			J13-V* J26-L4	91 79				.25 NO .25 YES			 47	
A 138R			J13-U* J26-C3	91 79				.25 NO .25 YES			 47	
A 139	10				2.25 2.25	2.00 2.00				B,7 A,4	63 57, 56, 63	
A 139B	1		E22 SHLD A139	170 				.25 NO .25 NO				

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 41 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 139L			J26-D4 TB1-3C	79 2				.25 YES .15 NO			 49	
A 139R			J26-C4 TB1-3A	79 2				.25 YES .15 NO			47 49	
A 140	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 140A	1		SHLD A140 E27	 189				.25 NO .25 NO				
A 140L			J13-X* TB1-3D	91 2				.25 NO .15 NO			 49	
A 140R			J13-W* TB1-3B	91 2				.25 NO .15 NO			 49	
A 141	8											
A 141L			TB1-3C J21-B2	1 84				.15 NO .20 NO			49 46	
A 141R			TB1-3A J21-A2	1 84				.15 NO .20 NO			49 46	
A 142	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 142B	1		E22 SHLD A142	170 				.25 NO .25 NO				
A 142L			J3-L J21-C2	85 84				.25 NO .20 NO			 46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 42 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 142R			J3-K J21-B2	85 64				.25 .20	NO NO			
A 143	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	
A 143A	1		SHLD A143 E16	 176				.25 .25	NO NO			
A 143W			J26-M3 J22-H6	79 83				.20 .20	NO NO		46 46	
A 144	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 144A	1		SHLD A144 E27	 189				.25 .25	NO NO			
A 144L			J13-KK J26-F5	91 79				.25 .25	NO YES		 47	
A 144R			J13-JJ J26-D5	91 79				.25 .25	NO YES		 47	
A 145	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 145A	1		SHLD A145 E27	 189				.25 .25	NO NO			
A 145L			J13-FF TB1-49B	91 32				.25 .15	NO NO		 49	
A 145R			J13-EE TB1-48C	91 32				.25 .15	NO NO		 49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 43 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 146	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 146A	1		SHLD A146 E17	 171				.25 .25	NO NO			
A 146L			TB1-49B J27-B2	31 78				.15 .25	NO YES		49 47	
A 146R			TB1-48D J27-A2	31 78				.15 .25	NO YES		49 47	
A 147	13											
A 147L			TB1-49A J26-D6	31 79				.15 .25	NO YES		49 47	
A 147R			TB1-48A J26-C6	31 79				.15 .25	NO YES		49 47	
A 147Y			TB1-48C J26-C5	31 79				.15 .25	NO YES		49 47	
A 148	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 148A	1		SHLD A148 E17	 171				.25 .25	NO NO			
A 148L			TB1-49A TB1-4D	32 2				.15 .15	NO NO		49 49	
A 148R			TB1-48A TB1-4B	32 2				.15 .15	NO NO		49 49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 44 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 149A	1		SHLD A149 E27	 189				.25 .25	NO NO			
A 149L			J13-HH TB1-4C	91 2				.25 .15	NO NO		 49	
A 149R			J13-GG TB1-4A	91 2				.25 .15	NO NO		 49	
A 150	8											
A 150L			TB1-4C J21-B3	1 84				.15 .20	NO NO		49 46	
A 150R			TB1-4A J21-A3	1 84				.15 .20	NO NO		49 46	
A 151	10				2.25 2.25	2.00 2.00				A,4 B,7	57, 56, 63 63	
A 151A	1		SHLD A151 E22	 170				.25 .25	NO NO			
A 151L			J21-C3 J27-A1	84 78				.20 .25	NO YES		46 47	
A 151R			J21-B3 J27-B1	84 78				.20 .25	NO YES		 47	
A 152	5				2.25 2.25	2.00 2.00				A,4 B,7	53, 52, 63 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 45 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 152A	1		SHLD A152 E16	 176				.25 .25	NO NO			
A 152W			J26-N3 J22-G6	79 83				.20 .20	NO NO		46 46	
A 153	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 153A	1		SHLD A153 E28	 192				.25 .25	NO NO			
A 153W			J14-R* J26-F2	111 79				.25 .25	NO YES		 47	
A 154	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 154A	1		SHLD A154 E28	 192				.25 .25	NO NO			
A 154W			J14-Q* J26-F4	111 79				.25 .25	NO YES		 47	
A 155	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	
A 155A	1		SHLD A155 E28	 192				.25 .25	NO YES		 47	
A 155W			J14-S* J26-F6	111 79				.25 .25	NO YES		 47	
A 156	5				3.25 2.25	3.00 2.00				A,4 B,7	53, 52, 63 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 46 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156A	1		SHLD A156					.25	NO			
			E26	192				.25	NO			
A 156W			J14-F*	111				.25	NO			
			J26-C7	79				.25	YES		47	
A 157	15				3.25	3.00				B,7	63	
					7.00	6.75				A,4	59, 65, 63	
A 157B	1		E16	176				.25	NO			
			SHLD A157					.25	NO			
A 157L			J11-K*	114				.25	NO			
			TB1-51A	34				.15	NO		A 87, 49	
A 157R			J11-J*	114				.25	NO			
			J26-R1	79			3.00	.20	NO		46	
A 157Y			J11-M*	114				.25	NO			
			J26-P1	79			3.00	.20	NO		46	
A 158	15				3.25	3.00				B,7	63	
					7.00	6.75				A,4	59, 65, 63	
A 158B	1		E16	176				.25	NO			
			SHLD A158					.25	NO			
A 158L			J12-JJ	113				.25	NO			
			TB1-51B	34				.15	NO		A 87, 49	
A 158R			J12-HH	113				.25	NO			
			J26-R3	79			3.00	.20	NO		46	
A 158Y			J12-KK	113				.25	NO			
			J26-P3	79			3.00	.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 47 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 159	15				3.25	3.00				B,7	63	
					7.00	6.75				A,4	59, 65, 63	
A 159B	1		E16	176				.25	NO			
			SHLD A159					.25	NO			
A 159L			J12-MM	113				.25	NO			
			TB1-51B	33				.15	NO		A 87, 49	
A 159R			J12-LL	113				.25	NO			
			J26-N1	79			3.00	.20	NO		46	
A 159Y			J12-NN	113				.25	NO			
			J26-N2	79			3.00	.20	NO		46	
A 160	2		TB1-51D	33				.15	NO		48	
			J26-R2	79				.20	NO		46	
A 161	2		TB1-51C	34				.15	NO		48	
			TB3-18Z	155				.25	NO		50	
A 162	2		TB1-51C	33				.15	NO		48	
			TB3-18Z	155				.25	NO		50	
A 163	2		TB1-51A	33				.15	NO		48	
			J26-P2	79				.20	NO		46	
A 164	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 164A	1		SHLD A164					.25	NO			
			E24	165				.25	NO			
A 164L			J3-F	85				.25	NO			
			J26-A9	79				.25	YES		47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 48 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 164R			J3-G	85				.25	NO			
			J26-A8	79				.25	YES		47	
A 165	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 165B	1		E16	176				.25	NO			
			SHLD A165					.25	NO			
A 165L			J11-K	114				.25	NO			
			J26-A9	79				.25	YES			
A 165R			J11-J	114				.25	NO			
			J26-A8	79				.25	YES			
A 165Y			J11-H	114				.25	NO			
			J26-B9	79				.25	YES		47	
A 166	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 166A	1		SHLD A166					.25	NO			
			E24	165				.25	NO			
A 166L			J3-E	85				.25	NO			
			J26-C8	79				.25	YES		47	
A 166R			J3-D	85				.25	NO			
			J26-B8	79				.25	YES		47	
A 167	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 167B	1		E16	176				.25	NO			
			SHLD A167					.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 49 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 167L			J11-Z*	114				.25	NO			
			J26-C8	79				.25	YES			
A 167R			J11-Y*	114				.25	NO			
			J26-B8	79				.25	YES			
A 167Y			J11-X*	114				.25	NO			
			J26-C9	79				.25	YES		47	
A 168	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 168A	1		SHLD A168					.25	NO			
			E23	166				.25	NO			
A 168L			J1-F	86				.25	NO			
			J26-D9	79				.25	YES		47	
A 168R			J1-E	86				.25	NO			
			J26-D8	79				.25	YES		47	
A 169	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 169A	1		SHLD A169					.25	NO			
			E16	176				.25	NO			
A 169L			J26-F9	79				.25	YES		47	
			J11-CC	114				.25	NO			
A 169R			J26-D9	79				.25	YES			
			J11-DD	114				.25	NO			
A 170	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 50 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD OUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170A	1		SHLD A170					.25	NO			
			E23	166				.25	NO			
A 170L			J1-W	86				.25	NO			
			J26-G1	79				.20	NO		46	
A 170R			J1-X	86				.25	NO			
			J26-H1	79				.20	NO		46	
A 171	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 171A	1		SHLD A171					.25	NO			
			L16	176				.25	NO			
A 171L			J26-G2	79				.20	NO		46	
			J11-G*	114				.25	NO			
A 171R			J26-G1	79				.20	NO			
			J11-F*	114				.25	NO			
A 172	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 172A	1		SHLD A172					.25	NO			
			E23	166				.25	NO			
A 172L			J1-G	86				.25	NO			
			J26-G3	79				.20	NO		46	
A 172R			J1-H	86				.25	NO			
			J26-H3	79				.20	NO		46	
A 173	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 51 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD OUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 173A	1		SHLD A173					.25	NO			
			F16	176				.25	NO			
A 173L			J26-G4	79				.20	NO		46	
			J11-T*	114				.25	NO			
A 173R			J26-G3	79				.20	NO			
			J11-S*	114				.25	NO			
A 174	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 174A	1		SHLD A174					.25	NO			
			E23	166				.25	NO			
A 174L			J1-C	86				.25	NO			
			J26-F7	79				.25	YES		47	
A 174R			J1-D	86				.25	NO			
			J26-D7	79				.25	YES		47	
A 175	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 175A	1		SHLD A175					.25	NO			
			E17	171				.25	NO			
A 175L			J26-F8	79				.25	YES		47	
			J11-B8	114				.25	NO			
A 175R			J26-F7	79				.25	YES			
			J11-AA	114				.25	NO			
A 176	1		J14-LL	111				.25	NO			
			J26-A7	79				.25	YES		47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 52 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD OUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 177	1		J14-DD	111				.25	NO			
			J26-M1	79				.20	NO		46	
A 178	1		J14-M	111				.25	NO			
			J26-S1	79				.20	NO		46	
A 179	1		J14-N	111				.25	NO			
			J26-T1	79				.20	NO		46	
A 180	1		J14-P	111				.25	NO			
			J26-T2	79				.20	NO		46	
A 181	13											
A 181L			J26-L3	79				.20	NO		46	
			TB1-52C	33				.15	NO		49	
A 181R			J26-L4	79				.20	NO		46	
			TB1-52A	33				.15	NO		49	
A 181Y			J26-M4	79				.20	NO		46	
			TB1-52B	33				.15	NO		49	
A 182	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 182A	1		SHLD A182					.25	NO			
			TB1-52C	34				.15	NO		49	
A 182B	1		TB1-18A	12				.15	NO		49	
			SHLD A182					.25	NO			
A 182E			TB1-52A	34				.15	NO		49	
			TB1-19A	12				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 53 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD OUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 183	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 183A	1		SHLD A183					.25	NO			
			TB1-52D	34				.15	NO		49	
A 183B	1		TB1-18D	12				.15	NO		49	
			SHLD A183					.25	NO			
A 183E			TB1-52B	34				.15	NO		49	
			TB1-19C	12				.15	NO		49	
A 184	7				2.25	2.00				A,5	53, 52, 63	
					.52	.25				B,10	41, 42, 63	
A 184A	1		SHLD A184					.25	NO			
			TB1-18B	12				.15	NO		49	
A 184E			TB1-19B	12				.15	NO		49	
			J7-B1	95				.15	NO		40	
A 184X			SHLD A184									
			J7-B2	95								
A 185	7				2.25	2.00				A,5	53, 52, 63	
					.52	.25				B,10	41, 42, 63	
A 185A	1		SHLD A185					.25	NO			
			TB1-18B	11				.15	NO		49	
A 185E			TB1-19D	11				.15	NO		49	
			J7-A1	95				.15	NO		40	
A 185X			SHLD A185									
			J7-A2	95								

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 54 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 186	13											
A 186L			TB1-18A	11				.15	NO		49	
			J22-F1	83				.20	NO		46	
A 186R			TB1-19A	11				.15	NO		49	
			J22-D1	83				.20	NO		46	
A 186Y			TB1-19C	11				.15	NO		49	
			J22-D2	83				.20	NO		46	
A 187	11				3.25	3.00				B,7	63	
					4.50	4.25				A,4	59, 58, 63	
A 187B	1		E17	171				.25	NO			
			SHLD A187					.25	NO			
A 187L			J17-Q*	109				.25	NO			
			TB2-1A	37				.15	NO		A 87, 48	
A 187R			J17-P*	109				.25	NO			
			TB1-53A	35				.15	NO		A 87, 46	
A 188	10				3.25	3.00				B,7	63	
					4.50	4.25				A,4	57, 56, 63	
A 188B	1		E17	171				.25	NO			
			SHLD A188					.25	NO			
A 188L			J16-NN	112				.25	NO			
			TB2-1B	38				.15	NO		A 87, 49	
A 188R			J16-MM	112				.25	NO			
			TB1-53B	36				.15	NO		A 87, 49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR	SHEET 55 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 189	10				3.25	3.00				B,7	63	
					4.50	4.25				A,4	57, 56, 63	
A 189B	1		E17	171				.25	NO			
			SHLD A189					.25	NO			
A 189L			J18-E	96				.25	NO			
			TB2-1C	38				.15	NO		A 87, 49	
A 189R			J18-D	96				.25	NO			
			TB1-53C	36				.15	NO		A 87, 49	
A 190	10				3.25	3.00				B,7	63	
					4.50	4.25				A,4	57, 56, 63	
A 190B	1		E17	171				.25	NO			
			SHLD A190					.25	NO			
A 190L			J19-E	106				.25	NO			
			TB2-1A	38				.15	NO		A 87, 49	
A 190R			J19-D	106				.25	NO			
			TB1-53A	36				.15	NO		A 87, 49	
A 191	11				3.25	3.00				B,7	63	
					4.50	4.25				A,4	59, 58, 63	
A 191B	1		E17	171				.25	NO			
			SHLD A191					.25	NO			
A 191L			J31-I*	89				.25	NO			
			TB2-1B	37				.15	NO		A 87, 48	
A 191R			J31-H*	89				.25	NO			
			TB1-53B	35				.15	NO		A 87, 48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 56 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 192	11				3.25	3.00				B,7	63	
					4.50	4.25				A,4	59, 58, 63	
A 192B	1		E17	171				.25	NO			
			SHLD A192					.25	NO			
A 192L			J32-P*	90				.25	NO			
			TB2-1C	37				.15	NO		A 87, 48	
A 192R			J32-N*	90				.25	NO			
			TB1-53C	35				.15	NO		A 87, 48	
A 193	10				2.25	2.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 193B	1		E18	175				.25	NO			
			SHLD A193					.25	NO			
A 193L			J28-S1	77				.20	NO		46	
			TB1-55C	35				.15	NO		49	
A 193R			J28-T1	77				.20	NO		46	
			TB1-54C	35				.15	NO		49	
A 194	10				2.25	2.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 194B	1		E18	175				.25	NO			
			SHLD A194					.25	NO			
A 194L			J29-S6	76				.20	NO		46	
			TB1-55B	35				.15	NO		49	
A 194R			J29-T6	76				.20	NO		46	
			TB1-54B	35				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 57 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	10				2.25	2.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 195B	1		E18	175				.25	NO			
			SHLD A195					.25	NO			
A 195L			J30-G5	75				.20	NO		46	
			TB1-55B	36				.15	NO		49	
A 195R			J30-G6	75				.20	NO		46	
			TB1-54B	36				.15	NO		49	
A 196	2		TB1-53D	36				.15	NO		48	
			TB1-54D	36				.15	NO		48	
A 197	2		TB1-55D	36				.15	NO		48	
			TB2-1D	38				.15	NO		48	
A 198	9											
A 198L			TB1-55D	35				.15	NO		48	
			J26-N5	79				.20	NO		46	
A 198R			TB1-53D	35				.15	NO		48	
			J26-P5	79				.20	NO		46	
A 199	8											
A 199L			TB2-1D	37				.15	NO		49	
			J26-N5	79				.20	NO			
A 199R			TB1-54D	35				.15	NO		49	
			J26-P5	79				.20	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 58 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 200	1		J30-G5	75				.20	NO			
			J30-G4	75				.20	NO		46	
A 201	5				2.25	2.00				A,4	53, 52, 63	
					3.25	3.00				B,7	63	
A 201A	1		SHLD A201					.25	NO			
			E18	175				.25	NO			
A 201W			J26-K4	79				.20	NO		46	
			J12-K*	113				.25	NO			
A 202	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 202B	1		E18	175				.25	NO			
			SHLD A202					.25	NO			
A 202L			J16-G6	112				.25	NO			
			TB2-3A	37				.15	NO		49	
A 202R			J16-F*	112				.25	NO			
			TB2-2A	37				.15	NO		49	
A 203	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 203B	1		E18	175				.25	NO			
			SHLD A203					.25	NO			
A 203L			J18-G	96				.25	NO			
			TB2-3B	37				.15	NO		48	
A 203R			J18-F	96				.25	NO			
			TB2-2B	37				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 59 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 204	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 204B	1		E18	175				.25	NO			
			SHLD A204					.25	NO			
A 204L			J19-G	106				.25	NO			
			TB2-3C	38				.15	NO		48	
A 204R			J19-F	106				.25	NO			
			TB2-2C	38				.15	NO		48	
A 205	10				2.25	2.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 205B	1		E18	175				.25	NO			
			SHLD A205					.25	NO			
A 205L			J30-H5	75				.20	NO		46	
			TB2-3D	37				.15	NO		49	
A 205R			J30-H6	75				.20	NO		46	
			TB2-2D	37				.15	NO		49	
A 206	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 206B	1		E18	175				.25	NO			
			SHLD A206					.25	NO			
A 206L			J31-K*	89				.25	NO			
			TB2-3A	38				.15	NO		48	
A 206R			J31-J*	89				.25	NO			
			TB2-2A	38				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 60 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 207B	1		E18	175				.25	NO			
			SHLD A207					.25	NO			
A 207L			J32-R*	90				.25	NO			
			TB2-3B	38				.15	NO		48	
A 207R			J32-Q*	90				.25	NO			
			TB2-2B	38				.15	NO		48	
A 208	9											
A 208L			TB2-3C	37				.15	NO		48	
			J26-N6	79				.20	NO		46	
A 208R			TB2-2C	37				.15	NO		48	
			J26-P6	79				.20	NO		46	
A 209	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 209B	1		E15	177				.25	NO			
			SHLD A209					.25	NO			
A 209L			J11-N	114				.25	NO			
			J27-B4	78				.25	YES		47	
A 209R			J11-M	114				.25	NO			
			J27-A4	78				.25	YES		47	
A 210	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 61 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 210B	1		E15	177				.25	NO			
			SHLD A210					.25	NO			
A 210L			J11-R	114				.25	NO			
			J27-D4	78				.25	YES		47	
A 210R			J11-P	114				.25	NO			
			J27-C4	78				.25	YES		47	
A 211	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 211B	1		E15	177				.25	NO			
			SHLD A211					.25	NO			
A 211L			J11-X	114				.25	NO			
			J27-B3	78				.25	YES		47	
A 211R			J11-W	114				.25	NO			
			J27-A3	78				.25	YES		47	
A 212	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 212B	1		E15	177				.25	NO			
			SHLD A212					.25	NO			
A 212L			J11-T	114				.25	NO			
			J27-C1	78				.25	YES		47	
A 212R			J11-S	114				.25	NO			
			J27-D1	78				.25	YES		47	
A 213	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 62 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 213A	1		SHLD A213					.25 NO				
			P23	166				.25 NO				
A 213L			J3-P	85				.25 NO				
			J27-C1	78				.25 YES				
A 213R			J3-K	85				.25 NO				
			J27-C2	78				.25 YES			47	
A 214	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 214B	1		E15	177				.25 NO				
			SHLD A214					.25 NO				
A 214L			J11-V	114				.25 NO				
			J27-D3	78				.25 YES			47	
A 214R			J11-U	114				.25 NO				
			J27-C3	78				.25 YES			47	
A 215	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 215A	1		SHLD A215					.25 NO				
			E23	166				.25 NO				
A 215L			J3-M	85				.25 NO				
			J27-D3	78				.25 YES				
A 215R			J3-N	85				.25 NO				
			J27-D2	78				.25 YES			47	
A 216	1		J17-P	109				.25 NO				
			J28-R1	77				.20 NO			46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 63 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J28-R1	77				.20 NO				
			J29-R6	76				.20 NO			46	
A 218	1		J17-S*	109				.25 NO				
			J28-R2	77				.20 NO			46	
A 219	1		J17-B8	109				.25 NO				
			J28-T3	77				.20 NO			46	
A 220	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 220A	1		SHLD A220					.25 NO				
			J31-S	89				.25 NO				
A 220B	1		J29-B1	76				.25 YES			47	
			SHLD A220					.25 NO				
A 220E			J31-R	89				.25 NO				
			J29-A1	76				.25 YES			47	
A 221	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 221A	1		SHLD A221					.25 NO				
			J31-P	89				.25 NO				
A 221B	1		J29-C1	76				.25 YES			47	
			SHLD A221					.25 NO				
A 221L			J31-M	89				.25 NO				
			J29-C2	76				.25 YES			47	
A 221R			J31-L	89				.25 NO				
			J29-C1	76				.25 YES				

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 64 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 222	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 222A	1		SHLD A222					.25 NO				
			TB3-16A	154				.16 NO			49	
A 222L			J19-N	106				.25 NO				
			J29-C6	76				.25 YES			47	
A 222R			J19-M	106				.25 NO				
			J29-C5	76				.25 YES			47	
A 223	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 223A	1		SHLD A223					.25 NO				
			J19-Z	106				.25 NO				
A 223B	1		J29-H1	76				.20 NO			46	
			SHLD A223					.25 NO				
A 223E			J19-Y	106				.25 NO				
			J29-G1	76				.20 NO			46	
A 224	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 224A	1		SHLD A224					.25 NO				
			TB3-16C	154				.16 NO			49	
A 224L			J19-X	106				.25 NO				
			J29-K2	76				.20 NO			46	
A 224R			J19-W	106				.25 NO				
			J29-K1	76				.20 NO			46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 65 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 225	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 225B	1		E8	180				.25 NO				
			SHLD A225					.25 NO				
A 225L			J19-V	106				.25 NO				
			J29-P1	76				.20 NO			46	
A 225R			J19-U	106				.25 NO				
			J29-P2	76				.20 NO			46	
A 226	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 226A	1		SHLD A226					.25 NO				
			J19-EE	106				.25 NO				
A 226B	1		J29-B4	76				.25 YES			47	
			SHLD A226					.25 NO				
A 226L			J19-R*	106				.25 NO				
			J29-B4	76				.25 YES				
A 226R			J19-S*	106				.25 NO				
			J29-B5	76				.25 YES			47	
A 227	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 227A	1		SHLD A227					.25 NO				
			J19-X*	106				.25 NO				
A 227B	1		J29-B6	76				.25 YES			47	
			SHLD A227					.25 NO				

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 66 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 227E			J19-W*	106				.25	NO			
			J29-A6	76				.25	YES		47	
A 228	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 228A	1		SHLD A228					.25	NO			
			E12	196				.25	NO			
A 228L			J17-W	109				.25	NO			
			J29-F8	76				.25	YES		47	
A 228R			J17-V	109				.25	NO			
			J29-F9	76				.25	YES		47	
A 229	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 229A	1		SHLD A229					.25	NO			
			E30	195				.25	NO			
A 229L			J18-A*	96				.25	NO			
			J29-C9	76				.25	YES		47	
A 229R			J18-B*	96				.25	NO			
			J29-C8	76				.25	YES		47	
A 230	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 230A	1		SHLD A230					.25	NO			
			E30	195				.25	NO			
A 230L			J18-M	96				.25	NO			
			J29-K5	76				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 67 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 230K			J18-N	96				.25	NO			
			J29-K4	76				.20	NO		46	
A 231	8											
A 231L			J29-H5	76				.20	NO		46	
			J30-C8	75				.25	YES		47	
A 231R			J29-K5	76				.20	NO			
			J30-D8	75				.25	YES		47	
A 232	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 63	
A 232B	1		E8	180				.25	NO			
			SHLD A232					.25	NO			
A 232L			J18-S	96				.25	NO			
			J29-P4	76				.20	NO		46	
A 232R			J18-U	96				.25	NO			
			J29-P3	76				.20	NO		46	
A 232Y			J18-T	96				.25	NO			
			J29-P5	76				.20	NO		46	
A 233	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 233A	1		SHLD A233					.25	NO			
			E30	195				.25	NO			
A 233L			J18-P	96				.25	NO			
			J29-G4	76				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 68 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233R			J18-R	96				.25	NO			
			J29-G3	76				.20	NO		46	
A 234	8											
A 234L			J29-H4	76				.20	NO		46	
			J30-C9	75				.25	YES		47	
A 234R			J29-G4	76				.20	NO			
			J30-D9	75				.25	YES		47	
A 235	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 235A	1		SHLD A235					.25	NO			
			J18-B8	96				.25	NO			
A 235B	1		J29-B7	76				.25	YES		47	
			SHLD A235					.25	NO			
A 235L			J18-M*	96				.25	NO			
			J29-B8	76				.25	YES		47	
A 235R			J18-K*	96				.25	NO			
			J29-B7	76				.25	YES			
A 236	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 236A	1		SHLD A236					.25	NO			
			J18-X*	96				.25	NO			
A 236B	1		J29-B9	76				.25	YES		47	
			SHLD A236					.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 69 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 236E			J18-W*	96				.25	NO			
			J29-A9	76				.25	YES		47	
A 237	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 237A	1		SHLD A237					.25	NO			
			E12	196				.25	NO			
A 237L			J17-C*	109				.25	NO			
			J29-D7	76				.25	YES		47	
A 237R			J17-B*	109				.25	NO			
			J29-D8	76				.25	YES		47	
A 238	1		J17-U*	109				.25	NO			
			J29-P6	76				.20	NO		46	
A 239	1		J29-M1	76				.20	NO		46	
			T82-32A	57				.15	NO		49	
A 240	1		J29-M2	76				.20	NO		46	
			T82-32B	58				.15	NO		49	
A 241	1		J29-M3	76				.20	NO		46	
			T82-32C	58				.15	NO		49	
A 242	1		J29-M4	76				.20	NO		46	
			T82-34A	59				.15	NO		49	
A 243	1		J29-M5	76				.20	NO		46	
			T82-34B	59				.15	NO		49	
A 244	1		J29-M6	76				.20	NO		46	
			T82-34C	59				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 70 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 245	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 245B	1		E8 SHLD A245	180				.25 NO .25 NO				
A 245L			J16-F* T82-33A	112 56				.25 NO .15 NO			49	
A 245R			J16-E* T82-32A	112 56				.25 NO .15 NO			49	
A 246	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 246B	1		E8 SHLD A246	180				.25 NO .25 NO				
A 246L			J16-G* T82-33A	112 57				.25 NO .15 NO			49	
A 246R			J16-P* T82-32B	112 57				.25 NO .15 NO			49	
A 247	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 247B	1		E8 SHLD A247	180				.25 NO .25 NO				
A 247L			J16-H T82-33B	112 57				.25 NO .15 NO			49	
A 247R			J16-G T82-32C	112 57				.25 NO .15 NO			49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 71 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 248	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 248B	1		E8 SHLD A248	180				.25 NO .25 NO				
A 248L			J16-B* T82-33B	112 60				.25 NO .15 NO			49	
A 248R			J16-A* T82-34A	112 60				.25 NO .15 NO			49	
A 249	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 249B	1		E8 SHLD A249	180				.25 NO .25 NO				
A 249L			J16-S* T82-33C	112 60				.25 NO .15 NO			49	
A 249R			J16-R* T82-34B	112 60				.25 NO .15 NO			49	
A 250	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 250B	1		E8 SHLD A250	180				.25 NO .25 NO				
A 250L			J16-N* T82-33D	112 60				.25 NO .15 NO			49	
A 250R			J16-M* T82-34C	112 60				.25 NO .15 NO			49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 72 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251	8											
A 251L			J12-H* J30-B4	113 75				.25 NO .25 YES			47	
A 251R			J12-G* J30-A4	113 75				.25 NO .25 YES			47	
A 252	8											
A 252L			J30-B4 J2-E*	75 87				.25 YES .25 NO				
A 252R			J30-A4 J2-D*	75 87				.25 YES .25 NO				
A 253	8											
A 253L			J30-B6 J2-C*	75 87				.25 YES .25 NO			47	
A 253R			J30-A6 J2-B*	75 87				.25 YES .25 NO			47	
A 254	7				3.25 2.25	3.00 2.00				A,5 A,5	53, 52, 63 53, 52, 63	
A 254A	1		SHLD A254 J32-LL	90				.25 NO .25 NO				
A 254B	1		J30-B9 SHLD A254	75				.25 YES .25 NO			47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 73 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 254E			J32-KK J30-A9	90 75				.25 NO .25 YES			47	
A 255	10				3.25 2.25	3.00 2.00				B,7 A,4	63 57, 56, 63	
A 255B	1		E7 SHLD A255	181				.25 NO .25 NO				
A 255L			J16-P J30-B7	112 75				.25 NO .25 YES			47	
A 255R			J16-N J30-B8	112 75				.25 NO .25 YES			47	
A 256	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 256A	1		SHLD A256 E25	188				.25 NO .25 NO				
A 256L			J31-S* J30-C7	89 75				.25 NO .25 YES			47	
A 256R			J31-R* J30-C6	89 75				.25 NO .25 YES			47	
A 257	8											
A 257L			J17-K* J30-F7	109 75				.25 NO .25 YES			47	
A 257R			J17-J* J30-F6	109 75				.25 NO .25 YES			47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 74 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 258	8											
A 258L			J12-GG	113				.25	NO			
			J30-F1	75				.25	YES		47	
A 258R			J12-FF	113				.25	NO			
			J30-D1	75				.25	YES		47	
A 259	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 259A	1		SHLD A259					.25	NO			
			E25	188				.25	NO			
A 259L			J31-X*	89				.25	NO			
			J30-D7	75				.25	YES		47	
A 259R			J31-W*	89				.25	NO			
			J30-D6	75				.25	YES		47	
A 260	1		J17-MM	109				.25	NO			
			J30-F2	75				.25	YES		47	
A 261	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 261B	1		T81-22D	14				.15	NO		49	
			SHLD A261					.25	NO			
A 261E			J8-A1	94				.15	NO		40	
			T81-22B	14				.15	NO		49	
A 261X			J8-A2	94								
			SHLD A261									

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 75 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 262	8											
A 262L			T81-22C	13				.15	NO		49	
			J22-H1	83				.20	NO		46	
A 262R			T81-22A	13				.15	NO		49	
			J22-K1	83				.20	NO		46	
A 263	7				2.25	2.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 263A	1		SHLD A263					.25	NO			
			T81-22C	14				.15	NO		49	
A 263B	1		J30-D3	75				.25	YES		47	
			SHLD A263					.25	NO			
A 263E			T81-22A	14				.15	NO		49	
			J30-F3	75				.25	YES		47	
A 264	8											
A 264L			J12-J	113				.25	NO			
			J30-G1	75				.20	NO		46	
A 264R			J12-H	113				.25	NO			
			J30-G2	75				.20	NO		46	
A 265	1		J30-K6	75				.20	NO		46	
			J30-L6	75				.20	NO		46	
A 266	1		J30-K5	75				.20	NO		46	
			J30-L5	75				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR	SHEET 76 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 267	9											
A 267L			J30-K5	75				.20	NO			
			T62-44D	65				.15	NO		48	
A 267R			J30-L6	75				.20	NO			
			T82-44B	65				.15	NO		48	
A 268	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 268A	1		SHLD A268					.25	NO			
			E7	181				.25	NO			
A 268L			T82-44C	65				.15	NO		49	
			J22-K4	83				.20	NO		46	
A 268R			T82-44A	65				.15	NO		49	
			J22-H4	83				.20	NO		46	
A 269	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 269A	1		SHLD A269					.25	NO			
			E28	192				.25	NO			
A 269L			J15-N	110				.25	YES		66	
			J30-M3	75				.20	NO		46	
A 269R			J15-M	110				.25	YES		66	
			J30-N3	75				.20	NO		46	
A 270	2		J30-M6	75				.20	NO		46	
			J22-G4	83				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 77 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 271	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 271A	1		SHLD A271					.25	NO			
			E7	181				.25	NO			
A 271L			T82-44C	66				.15	NO		49	
			J14-N*	111				.25	NO			
A 271R			T82-44A	66				.15	NO		49	
			J14-M*	111				.25	NO			
A 272	11				2.25	2.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 272A	1		SHLD A272					.25	NO			
			E7	181				.25	NO			
A 272L			T82-44D	66				.15	NO		48	
			J12-N	113				.25	NO			
A 272R			T82-44B	66				.15	NO		48	
			J12-M	113				.25	NO			
A 273	6				3.25	3.00				A,4	55, 54, 63	
					2.25	2.00				B,7	63	
A 273A	1		SHLD A273					.25	NO			
			E12	196				.25	NO			
A 273E			J17-Z	109				.25	NO			
			J30-H4	75				.20	NO		46	
A 274	2		J17-AA	109				.25	NO			
			T82-45A	68				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 78 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 275	2		TB2-45A	67				.15	NO		46	
			J30-N4	75				.20	NO		46	
A 276	1		TB2-45B	67				.15	NO		49	
			J31-CC	89				.25	NO			
A 277	6											
A 277L			TB2-45C	68				.15	NO		49	
			J32-X*	90				.25	NO			
A 277R			TB2-45B	68				.15	NO		49	
			J32-W*	90				.25	NO			
A 278	2		TB3-17A	124				.25	NO		50	
			TB2-45C	67				.15	NO		48	
A 279	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 279A	1		SHLD A279					.25	NO			
			E23	166				.25	NO			
A 279L			J1-F*	86				.25	NO			
			J11-E*	114				.25	NO			
A 279R			J1-G*	86				.25	NO			
			J11-D*	114				.25	NO			
A 280	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 280A	1		SHLD A280					.25	NO			
			E23	166				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 79 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 280L			J1-N	86				.25	NO			
			J11-R*	114				.25	NO			
A 280R			J1-P	86				.25	NO			
			J11-Q*	114				.25	NO			
A 281	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 281A	1		SHLD A281					.25	NO			
			E23	166				.25	NO			
A 281L			J1-B*	86				.25	NO			
			J11-C*	114				.25	NO			
A 281R			J1-A*	86				.25	NO			
			J11-B*	114				.25	NO			
A 282	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 282A	1		SHLD A282					.25	NO			
			E23	166				.25	NO			
A 282L			J1-M	86				.25	NO			
			J11-P*	114				.25	NO			
A 282R			J1-L	86				.25	NO			
			J11-N*	114				.25	NO			
A 283	12											
A 283K			J3-F*	85				.25	NO			
			E37	91A				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 80 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 283L			J3-G*	85				.25	NO			
			E36	91B				.25	NO			
A 283R			J3-D*	85				.25	NO			
			E36	91B				.25	NO			
A 283Y			J3-E*	85				.25	NO			
			E37	91A				.25	NO			
A 284	12											
A 284K			J3-C*	85				.25	NO			
			E34	91C				.25	NO			
A 284L			J3-B*	85				.25	NO			
			E35	110B				.25	NO			
A 284R			J3-A*	85				.25	NO			
			E35	110B				.25	NO			
A 284Y			J3-Z	85				.25	NO			
			E34	91C				.25	NO			
A 285	9											
A 285L			J3-X	85				.25	NO			
			E33	110A				.25	NO			
A 285R			J3-Y	85				.25	NO			
			E32	91D				.25	NO			
A 286	9											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 81 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 286L			J2-J	87				.25	NO			
			E33	110A				.25	NO			
A 286R			J2-H	87				.25	NO			
			E32	91D				.25	NO			
A 287	2		J13-C	91				.25	NO			
			J5-M	92				.25	NO			
A 288	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 288A	1		SHLD A288					.25	NO			
			E7	181				.25	NO			
A 288L			J2-P	87				.25	NO			
			J5-E	92				.25	NO			
A 288R			J2-N	87				.25	NO			
			J5-D	92				.25	NO			
A 289	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 289A	1		SHLD A289					.25	NO			
			E25	188				.25	NO			
A 289L			J32-N	90				.25	NO			
			J18-G*	96				.25	NO			
A 289R			J32-M	90				.25	NO			
			J18-H*	96				.25	NO			
A 290	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 82 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 290A	1		SHLD A290					.25	NO			
			E25	188				.25	NO			
A 290L			J32-T	90				.25	NO			
			J18-C*	96				.25	NO			
A 290R			J32-S	90				.25	NO			
			J18-D*	96				.25	NO			
A 291	10				3.25	3.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 291A	1		SHLD A291					.25	NO			
			E25	188				.25	NO			
A 291L			J32-H*	90				.25	NO			
			J19-M*	106				.25	NO			
A 291R			J32-G*	90				.25	NO			
			J19-N*	106				.25	NO			
A 292	7				.52	.25				B,10	41, 42, 63	
					.52	.25				B,10	41, 42, 63	
A 292E			J6-J1	108				.15	NO		40	
			J6-G1	108				.15	NO		40	
A 292X			J6-J2	108								
			J6-G2	108								
A 293	4		J20-L	93				.25	YES		66	
			J20-M	93				.25	YES		66	
A 294	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 83 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 294A	1		SHLD A294					.25	NO			
			E7	181				.25	NO			
A 294L			J4-C*	88				.25	NO			
			J24-A2	81				.20	NO		46	
A 294R			J4-B*	88				.25	NO			
			J24-A1	81				.20	NO		46	
A 295	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 295B	1		E19	172				.25	NO			
			SHLD A295					.25	NO			
A 295L			J4-L	88				.25	NO			
			J24-P3	81				.20	NO		46	
A 295R			J4-K	88				.25	NO			
			J24-P1	81				.20	NO		46	
A 295Y			J4-M	88				.25	NO			
			J24-P2	81				.20	NO		46	
A 296	2		J4-E*	88				.25	NO			
			TB3-1B	139				.25	NO		50	
A 297	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 297B	1		TB1-33C	22				.15	NO		49	
			SHLD A297					.25	NO			
A 297E			J9-J1	107				.15	NO		40	
			TB1-33A	22				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 84 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 297X			J9-J2	107								
			SHLD A297									
A 298	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 298B	1		TB1-33D	22				.15	NO		49	
			SHLD A298					.25	NO			
A 298E			J9-G1	107				.15	NO		40	
			TB1-33B	22				.15	NO		49	
A 298X			J9-G2	107								
			SHLD A298									
A 299	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 299B	1		TB1-34C	22				.15	NO		49	
			SHLD A299					.25	NO			
A 299E			J9-H1	107				.15	NO		40	
			TB1-34A	22				.15	NO		49	
A 299X			J9-H2	107								
			SHLD A299									
A 300	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 300B	1		TB1-34D	22				.15	NO		49	
			SHLD A300					.25	NO			
A 300E			J9-K1	107				.15	NO		40	
			TB1-34B	22				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 85 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 300X			J9-K2	107								
			SHLD A300									
A 301	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 301B	1		TB1-35C	24				.15	NO		49	
			SHLD A301					.25	NO			
A 301E			J10-B1	97				.15	NO		40	
			TB1-35A	24				.15	NO		49	
A 301X			J10-B2	97								
			SHLD A301									
A 302	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 302B	1		TB1-35D	24				.15	NO		49	
			SHLD A302					.25	NO			
A 302E			J10-A1	97				.15	NO		40	
			TB1-35B	24				.15	NO		49	
A 302X			J10-A2	97								
			SHLD A302									
A 303	1		TB1-33C	21				.15	NO		49	
			TB1-34C	21				.15	NO		49	
A 304	1		TB1-34D	21				.15	NO		49	
			TB1-35C	23				.15	NO		49	
A 305	8											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 86 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 305L			TB1-33B	21				.15	NO		49	
			J24-D2	81				.20	NO		46	
A 305R			TB1-33A	21				.15	NO		49	
			J24-C1	81				.20	NO		46	
A 306	6											
A 306L			TB1-34B	21				.15	NO		49	
			J24-D4	81				.20	NO		46	
A 306R			TB1-34A	21				.15	NO		49	
			J24-D3	81				.20	NO		46	
A 307	8											
A 307L			TB1-35B	23				.15	NO		49	
			J24-D6	81				.20	NO		46	
A 307R			TB1-35A	23				.15	NO		49	
			J24-D5	81				.20	NO		46	
A 308	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 308B	1		E19	172				.25	NO			
			SHLD A308					.25	NO			
A 308L			J4-H	88				.25	NO			
			J24-M3	81				.20	NO		46	
A 308R			J4-G	88				.25	NO			
			J24-M1	81				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 67 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 308Y			J4-J	88				.25	NO			
			J24-M2	81				.20	NO		46	
A 309	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 309B	1		E19	172				.25	NO			
			SHLD A309					.25	NO			
A 309L			J4-B	88				.25	NO			
			J24-N6	81				.20	NO		46	
A 309R			J4-A	88				.25	NO			
			J24-L6	81				.20	NO		46	
A 309Y			J4-C	88				.25	NO			
			J24-M6	81				.20	NO		46	
A 310	1		J24-G1	81				.20	NO		46	
			J23-H6	82				.20	NO		46	
A 311	8											
A 311L			J24-K1	81				.20	NO		46	
			J23-L6	82				.20	NO		46	
A 311R			J24-H1	81				.20	NO		46	
			J23-K6	82				.20	NO		46	
A 312	1		J24-A6	81				.20	NO		46	
			J23-A6	82				.20	NO		46	
A 313	1		J24-K3	81				.20	NO		46	
			TB1-29B	19				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 68 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 314	1		J24-H3	81				.20	NO		46	
			TB1-29D	19				.15	NO		49	
A 315	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 315B	1		TB1-30A	20				.15	NO		49	
			SHLD A315					.25	NO			
A 315E			J6-B1	108				.15	NO		40	
			TB1-29C	20				.15	NO		49	
A 315X			J6-B2	108								
			SHLD A315									
A 316	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 316B	1		TB1-30B	20				.15	NO		49	
			SHLD A316					.25	NU			
A 316E			J10-C1	97				.15	NO		40	
			TB1-29A	20				.15	NU		49	
A 316X			J10-C2	97								
			SHLD A316									
A 317	1		TB1-29C	19				.15	NO		49	
			J23-N5	82				.20	NO		46	
A 318	1		TB1-29A	19				.15	NO		49	
			J23-N6	82				.20	NO		46	
A 319	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 69 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319B	1		TB1-37B	24				.15	NO		49	
			SHLD A319					.25	NU			
A 319E			J6-A1	108				.15	NO		40	
			TB1-36B	24				.15	NO		49	
A 319X			J6-A2	108								
			SHLD A319									
A 320	10				5.25	5.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 320B	1		E19	172				.25	NO			
			SHLD A320					.25	NU			
A 320L			J11-G	114			2.00	.25	NO			
			TB1-37A	24				.15	NO		49	
A 320R			S3-2	88A				.25	YES		88	
			TB1-36A	24				.15	NO		49	
A 321	1		TB1-36A	23				.15	NO		49	
			J24-H6	81				.20	NO		46	
A 322	1		TB1-36B	23				.15	NO		49	
			J24-K4	81				.20	NO		46	
A 323	2		TB1-37B	23				.15	NO		48	
			J24-R6	81				.20	NO		46	
A 324	1		TB1-35D	23				.15	NO		49	
			TB1-37A	23				.15	NO		49	
A 325	2		TB1-37C	24				.15	NO		48	
			TB3-18W	156				.25	NO		50	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 90 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326	2		TB1-37D	24				.15	NO		48	
			TB3-18X	156				.25	NO		50	
A 327	12											
A 327K			J24-K2	81				.20	NO		46	
			TB1-24C	16				.15	NO		48	
A 327L			J24-S5	81				.20	NO		46	
			TB1-23C	16				.15	NO		48	
A 327R			J24-S3	81				.20	NO		46	
			TB1-23A	16				.15	NO		48	
A 327Y			J24-S2	81				.20	NO		46	
			TB1-24A	16				.15	NO		48	
A 328	14											
A 328L			J23-S1	82				.20	NO		46	
			TB1-24B	15				.15	NO		48	
A 328R			J23-S3	82				.20	NO		46	
			TB1-23D	15				.15	NO		48	
A 328Y			J23-P1	82				.20	NO		46	
			TB1-24D	15				.15	NO		48	
A 329	12											
A 329K			TB1-24C	15				.15	NO		48	
			J22-K6	83				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 91 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329L			TB1-23C	15				.15	NO		48	
			J22-M5	83				.20	NO		46	
A 329R			TB1-23A	15				.15	NO		48	
			J22-M6	83				.20	NO		46	
A 329Y			TB1-24A	15				.15	NO		48	
			J22-L6	83				.20	NO		46	
A 330	2		J24-P6	81				.20	NO		46	
			TB1-5B	3				.15	NO		48	
A 331	2		TB1-5B	4				.15	NO		48	
			J23-P6	82				.20	NO		46	
A 332	2		TB1-5A	4				.15	NO		48	
			J2-F	87				.25	NO			
A 333	1		J21-N6	84				.20	NO		46	
			TB1-5A	3				.15	NO		49	
A 334	2		J21-N6	84				.20	NO			
			TB1-5C	3				.15	NO		48	
A 335	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 335A	1		SHLD A335					.25	NO			
			E7	181				.25	NO			
A 335L			J4-Y	88				.25	NO			
			J23-B1	82				.20	NO		46	
A 335R			J4-X	88				.25	NO			
			J23-A1	82				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 92 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 336	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 336A	1		SHLD A336					.25	NO			
			E7	181				.25	NO			
A 336L			J4-A*	88				.25	NO			
			J23-B3	82				.20	NO		46	
A 336R			J4-Z	88				.25	NO			
			J23-A3	82				.20	NO		46	
A 337	8											
A 337L			J23-F2	82				.20	NO		46	
			TB1-31B	19				.15	NO		49	
A 337R			J23-D2	82				.20	NO		46	
			TB1-31A	19				.15	NO		49	
A 338	10				2.25	2.00				A,4	57, 56, 63	
					5.25	5.00				B,7	63	
A 338A	1		SHLD A338					.25	NO			
			E20	169				.25	NO			
A 338L			TB1-31D	20				.15	NO		49	
			J11-A*	114			2.00	.25	NO			
A 338R			TB1-31A	20				.15	NO		49	
			S1-2	88A				.25	YES		88	
A 339	10				2.25	2.00				A,4	57, 56, 63	
					5.25	5.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 93 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 339A	1		SHLD A339					.25	NO			
			E20	169				.25	NO			
A 339L			TB1-31C	20				.15	NO		49	
			J11-E	114			2.00	.25	NO			
A 339R			TB1-31B	20				.15	NO		49	
			S2-2	88A				.25	YES		88	
A 340	2		TB1-31D	19				.15	NO		48	
			TB1-32C	22				.15	NO		48	
A 341	2		TB1-30A	19				.15	NO		48	
			TB1-32A	21				.15	NO		48	
A 342	2		J23-R6	82				.20	NO		46	
			TB1-32C	21				.15	NO		48	
A 343	2		TB1-32B	21				.15	NO		48	
			TB3-18V	156				.25	NO		50	
A 344	2		TB1-32B	22				.15	NO		48	
			TB3-18V	156				.25	NO		50	
A 345	17				3.25	3.00				B,7	63	
					2.25	2.00				C,6A	64, 63	
A 345B	1		F20	169				.25	NO			
			SHLD A345					.25	NO			
A 345L			J4-V	88				.25	NO			
			J23-K1	82				.20	NO		46	
A 345R			J4-U	88				.25	NO			
			J23-H1	82				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 94 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	1		J5-T*	92				.25	NO			
			J22-L4	83				.20	NO		46	
A 365	1		J5-R*	92				.25	NO			
			J22-M1	83				.20	NO		46	
A 366	1		J5-F	92				.25	NO			
			J22-M3	83				.20	NO		46	
A 367	5				3.25	3.00				A,4	53, 52, 63	
					2.25	2.00				B,7	63	
A 367A	1		SHLD A367					.25	NO			
			E26	191				.25	NO			
A 367W			J5-C*	92				.25	NO			
			J22-N4	83				.20	NO		46	
A 368	1		K3-5	88A				.25	YES		44	
			K14-2	164A				.25	YES		45	
A 369	1		J11-W*	114				.25	NO			
			K14-1	164A				.25	YES		45	
A 370	15				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 65, 64	
A 370B	1		E22	170				.25	NO			
			SHLD A370					.25	NO			
A 370L			J12-S	113				.25	NO			
			J22-R1	83				.20	NO		46	
A 370R			J12-P	113				.25	NO			
			J22-P1	83				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 99 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 370Y			J12-R	113				.25	NO			
			J22-P2	83				.20	NO		46	
A 371	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 371A	1		SHLD A371					.25	NO			
			E22	170				.25	NO			
A 371L			J22-R1	83				.20	NO			
			K14-4	164A				.25	YES		45	
A 371R			J22-P1	83				.20	NO			
			K14-10	164A				.25	YES		45	
A 371Y			J22-P2	83				.20	NO			
			K14-7	164A				.25	YES		45	
A 372	16				3.25	3.00				B,7	62	
					3.25	3.00				A,4	60, 61, 62	
A 372B	1		E29	193				.25	NO			
			SHLD A372					.25	NO			
A 372L			J2-B	87				.25	NO			
			K14-5	164A				.25	YES		45	
A 372R			J2-A	87				.25	NO			
			K14-11	164A				.25	YES		45	
A 372Y			J2-C	87				.25	NO			
			K14-8	164A				.25	YES		45	
A 373	1		J14-CC	111				.25	NO			
			J21-L3	84				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 100 OF 174

84 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 374	1		J13-E*	91				.25	NO			
			J13-I*	91				.25	NO			
A 375	1		J13-I*	91				.25	NO			
			J13-K*	91				.25	NO			
A 376	18											
A 376K			J13-K*	91				.25	NO			
			J21-B5	84				.20	NO		46	
A 376L			J13-H*	91				.25	NO			
			J21-A5	84				.20	NO		46	
A 376R			J13-D*	91				.25	NO			
			J21-B6	84				.20	NO		46	
A 376Y			J13-J*	91				.25	NO			
			J21-A6	84				.20	NO		46	
A 377	9											
A 377L			J12-V*	113				.25	NO			
			J21-D5	84				.20	NO		46	
A 377R			J12-U*	113				.25	NO			
			J21-D6	84				.20	NO		46	
A 378	9											
A 378L			J12-X*	113				.25	NO			
			J21-G6	84				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 101 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 378R			J12-W*	113				.25	NO			
			J21-F6	84				.20	NO		46	
A 379	9											
A 379L			J12-Z*	113				.25	NO			
			J21-H5	84				.20	NO		46	
A 379R			J12-Y*	113				.25	NO			
			J21-H6	84				.20	NO		46	
A 380	18											
A 380K			J4-F*	88				.25	NO			
			J21-G1	84				.20	NO		46	
A 380L			J4-H*	88				.25	NO			
			J21-F1	84				.20	NO		46	
A 380R			J4-J*	88				.25	NO			
			J21-G2	84				.20	NO		46	
A 380Y			J4-G*	88				.25	NO			
			J21-H1	84				.20	NO		46	
A 381	2		J21-G2	84				.20	NO			
			T81-6A	3				.15	NO		48	
A 382	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 382B	1		T81-6A	4				.15	NO		49	
			SHLD A382					.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 102 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 382E			J7-D1	95				.15	NO		40	
			TB1-7A	4				.15	NO		49	
A 382X			J7-D2	95								
			SHLD A382									
A 383	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 383B	1		TB1-6D	4				.15	NO		49	
			SHLD A383					.25	NO			
A 383E			J7-C1	95				.15	NO		40	
			TB1-7B	4				.15	NO		49	
A 383X			J7-C2	95								
			SHLD A383									
A 384	13											
A 384L			TB1-6B	3				.15	NO		49	
			J21-M5	84				.20	NO		46	
A 384R			TB1-7A	3				.15	NO		49	
			J21-L6	84				.20	NO		46	
A 384Y			TB1-7B	3				.15	NO		49	
			J21-M6	84				.20	NO		46	
A 385	2		TB1-6A	4				.15	NO		48	
			TB3-18R	158				.25	NO		50	
A 386	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 103 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 386A	1		SHLD A386					.25	NO			
			E26	191				.25	NO			
A 386L			J31-G*	89				.25	NO			
			TB2-26A	54				.15	NO		49	
A 386R			J31-P*	89				.25	NO			
			TB2-24A	54				.15	NO		49	
A 387	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 387B	1		E14	178				.25	NO			
			SHLD A387					.25	NO			
A 387L			J16-S	112				.25	NO			
			TB2-26B	54				.15	NO		49	
A 387R			J16-R	112				.25	NO			
			TB2-24B	54				.15	NO		49	
A 388	8											
A 388L			TB2-26A	53				.15	NO		49	
			J28-D7	77				.25	YES		47	
A 388R			TB2-24A	53				.15	NO		49	
			J28-C7	77				.25	YES		47	
A 389	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 389A	1		SHLD A389					.25	NO			
			F25	188				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 104 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 389L			J31-Z*	89				.25	NO			
			TB2-26C	54				.15	NO		49	
A 389R			J31-Y*	89				.25	NO			
			TB2-24C	54				.15	NO		49	
A 390	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 390B	1		E14	178				.25	NO			
			SHLD A390					.25	NO			
A 390L			J16-U	112				.25	NO			
			TB2-25B	54				.15	NO		49	
A 390R			J16-T	112				.25	NO			
			TB2-24D	54				.15	NO		49	
A 391	8											
A 391L			TB2-26B	53				.15	NO		49	
			J28-D8	77				.25	YES		47	
A 391R			TB2-24C	53				.15	NO		49	
			J28-C8	77				.25	YES		47	
A 392	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 392A	1		SHLD A392					.25	NO			
			E25	188				.25	NO			
A 392L			J31-BB	89				.25	NO			
			TB2-25C	54				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 105 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 392R			J31-AA	89				.25	NO			
			TB2-27A	54				.15	NO		49	
A 393	10				3.25	3.00				B,7	63	
					2.25	2.00				A,4	57, 56, 63	
A 393B	1		E14	178				.25	NO			
			SHLD A393					.25	NO			
A 393L			J16-M	112				.25	NO			
			TB2-25D	54				.15	NO		49	
A 393R			J16-L	112				.25	NO			
			TB2-27B	54				.15	NO		49	
A 394	8											
A 394L			TB2-26C	53				.15	NO		49	
			J28-D9	77				.25	YES		47	
A 394R			TB2-27A	53				.15	NO		49	
			J28-C9	77				.25	YES		47	
A 395	2		TB2-26D	54				.15	NO		48	
			TB2-25A	54				.15	NO		48	
A 396	2		TB2-25D	53				.15	NO		48	
			TB3-17B	124				.25	NO		50	
A 397	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 397B	1		TB2-28C	56				.15	NO		49	
			SHLD A397					.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 106 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397E			J6-E1	108				.15	NO		40	
			TB2-28A	56				.15	NO		49	
A 397X			J6-E2	108								
			SHLD A397									
A 398	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 398B	1		TB2-28D	56				.15	NO		49	
			SHLD A398					.25	NO			
A 398E			J6-F1	108				.15	NO		40	
			TB2-28B	56				.15	NO		49	
A 398X			J6-F2	108								
			SHLD A398									
A 399	13											
A 399L			TB2-28C	55				.15	NO		49	
			J28-H5	77				.20	NO		46	
A 399R			TB2-28A	55				.15	NO		49	
			J28-G5	77				.20	NO		46	
A 399Y			TB2-28B	55				.15	NO		49	
			J28-K5	77				.20	NO		46	
A 400	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 400B	1		TB2-29C	56				.15	NO		49	
			SHLD A400					.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 107 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 400E			J6-C1	108				.15	NO		40	
			TB2-29A	56				.15	NO		49	
A 400X			J6-C2	108								
			SHLD A400									
A 401	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 401B	1		TB2-29D	56				.15	NO		49	
			SHLD A401					.25	NO			
A 401E			J6-D1	108				.15	NO		40	
			TB2-29B	56				.15	NO		49	
A 401X			J6-D2	108								
			SHLD A401									
A 402	13											
A 402L			TB2-29C	55				.15	NO		49	
			J28-H3	77				.20	NO		46	
A 402R			TB2-29A	55				.15	NO		49	
			J28-G3	77				.20	NO		46	
A 402Y			TB2-29B	55				.15	NO		49	
			J28-K3	77				.20	NO		46	
A 403	1		J28-L1	77				.20	NO		46	
			J28-L2	77				.20	NO		46	
A 404	1		J28-L2	77				.20	NO			
			J28-L3	77				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 108 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J28-L3	77				.20	NO			
			J28-L4	77				.20	NO		46	
A 406	1		J28-L4	77				.20	NO			
			J28-L5	77				.20	NO		46	
A 407	1		J28-L5	77				.20	NO			
			J28-L6	77				.20	NO		46	
A 408	2		TB2-19C	49				.15	NO		48	
			TB2-30A	58				.15	NO		48	
A 409	1		TB2-30A	57				.15	NO		49	
			J28-L6	77				.20	NO			
A 410	2		TB2-30B	57				.15	NO		48	
			TB3-17C	123				.25	NO		50	
A 411	2		TB2-16B	47				.15	NO		48	
			TB2-31A	58				.15	NO		48	
A 412	2		TB2-22B	51				.15	NO		48	
			TB2-31C	58				.15	NO		48	
A 413	2		TB2-23B	51				.15	NO		48	
			TB2-30D	57				.15	NO		48	
A 414	1		TB2-30C	57				.15	NO		49	
			J28-R4	77				.20	NO		46	
A 415	1		TB2-31A	57				.15	NO		49	
			J28-R5	77				.20	NO		46	
A 416	1		TB2-31C	57				.15	NO		49	
			J28-R6	77				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 109 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 417	2		J28-S3	77				.20	NO		46	
			TB3-17D	123				.25	NO		50	
A 418	2		TB2-31D	57				.15	NO		48	
			TB3-17F	123				.25	NO		50	
A 419	2		TB2-30B	58				.15	NO		48	
			TB3-17C	123				.25	NO		50	
A 420	2		TB2-30C	58				.15	NO		48	
			TB3-17G	123				.25	NO		50	
A 421	2		TB2-31B	58				.15	NO		48	
			TB3-17H	121				.25	NO		50	
A 422	2		TB2-31D	58				.15	NO		48	
			TB3-17F	123				.25	NO		50	
A 423	2		J28-T2	77				.20	NO		46	
			TB2-46A	67				.15	NO		48	
A 424	2		J29-T5	76				.20	NO		46	
			TB2-46B	67				.15	NO		48	
A 425	2		J27-T6	78				.20	NO		46	
			TB2-46A	68				.15	NO		48	
A 426	2		TB2-46B	68				.15	NO		48	
			J30-N6	75				.20	NO		46	
A 427	2		J16-AA	112				.25	NO			
			TB2-47D	68				.15	NO		48	
A 428	2		TB2-47C	67				.15	NO		48	
			J26-S6	79				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 110 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	2		TB2-47C	68				.15	NO		48	
			J30-P6	75				.20	NO		46	
A 430	2		J26-S5	79				.20	NO		46	
			TB2-47B	67				.15	NO		48	
A 433	2		J26-K5	79				.20	NO		46	
			TB3-17J	121				.25	NO		50	
A 434	2		J26-R6	79				.20	NO		46	
			TB3-17K	121				.25	NO		50	
A 435	1		J21-P5	84				.20	NO		46	
			J21-P4	84				.20	NO		46	
A 436	1		J21-P4	84				.20	NO			
			J21-K4	84				.20	NO		46	
A 437	2		J21-K4	84				.20	NO			
			TB1-6C	5				.15	NO		48	
A 438	2		J21-P2	84				.20	NO		46	
			TB1-8B	5				.15	NO		48	
A 439	2		J21-S6	84				.20	NO		46	
			TB1-8A	5				.15	NO		48	
A 440	2		TB1-8B	6				.15	NO		48	
			TB3-18S	158				.25	NO		50	
A 441	2		TB1-8C	6				.15	NO		48	
			TB3-18P	158				.25	NO		50	
A 442	1		J21-R2	84				.20	NO		46	
			J21-K1	84				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 111 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	2		J21-R1	84				.20	NO			
			TB1-9D	5				.15	NO		48	
A 444	2		J21-P6	84				.20	NO		46	
			TB1-9A	5				.15	NO		48	
A 445	2		TB1-9B	6				.15	NO		48	
			TB3-18Q	158				.25	NO		50	
A 446	2		TB1-9C	6				.15	NO		48	
			TB3-18M	160				.25	NO		50	
A 447	1		J21-P3	84				.20	NO		46	
			J21-R3	84				.20	NO		46	
A 448	2		J21-R3	84				.20	NO			
			TB1-10A	5				.15	NO		48	
A 449	2		J21-R5	84				.20	NO		46	
			TB1-10B	5				.15	NO		48	
A 450	2		J21-R6	84				.20	NO		46	
			TB1-10D	5				.15	NO		48	
A 451	2		TB1-10B	6				.15	NO		48	
			TB3-18N	160				.25	NO		50	
A 452	2		TB1-10C	5				.15	NO		48	
			TB3-18K	160				.25	NO		50	
A 453	1		J12-CC	113				.25	NO			
			J27-F2	78				.25	YES		47	
A 454	1		J27-F2	78				.25	YES			
			TB2-11C	43				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 112 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 455	15				2.25	2.00				A,4	59, 65, 63	
					2.25	2.00				B,7	63	
A 455A	1		SHLD A455					.25	NO			
			E22	170				.25	NO			
A 455L			J21-N2	84				.20	NO		46	
			TB2-11B	44				.15	NO		49	
A 455R			J21-P1	84				.20	NO		46	
			TB2-11A	44				.15	NO		49	
A 455Y			J21-N1	84				.20	NO		46	
			TB2-11C	44				.15	NO		49	
A 456	13											
A 456L			TB2-11D	43				.15	NO		49	
			J27-P2	78				.20	NO		46	
A 456R			TB2-11A	43				.15	NO		49	
			J27-N2	78				.20	NO		46	
A 456Y			TB2-11B	43				.15	NO		49	
			J27-R2	78				.20	NO		46	
A 457	2		TB2-11D	44				.15	NO		48	
			TB2-12A	46				.15	NO		48	
A 458	1		J27-S2	78				.20	NO		46	
			J27-S1	78				.20	NO		46	
A 459	2		J27-S1	78				.20	NO			
			TB2-12B	45				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 113 OF 174

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 460	1		J27-S4	78				.20	NO		46	
			J27-S3	78				.20	NO		46	
A 461	2		J27-S3	78				.20	NO			
			TB2-12D	45				.15	NO		48	
A 462	2		TB2-12B	46				.15	NO		48	
			TB3-18L	160				.25	NO		50	
A 463	2		TB2-12C	46				.15	NO		48	
			TB3-18H	162				.25	NO		50	
A 464	2		J27-R6	78				.20	NO		46	
			TB3-17L	121				.25	NO		50	
A 465	2		J27-S6	78				.20	NO		46	
			TB3-17M	119				.25	NO		50	
A 466	16				3.25	3.00				B,7	62	
					2.25	2.00				A,4	60, 61, 62	
A 466B	1		E8	180				.25	NO			
			SHLD A466					.25	NO			
A 466L			J31-F	89				.25	NO			
			TB2-37B	62				.15	NO		48	
A 466R			J31-E	89				.25	NO			
			TB2-37A	62				.15	NO		48	
A 466Y			J31-D	89				.25	NO			
			TB2-37C	62				.15	NO		48	
A 467	9											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 114 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 467L			TB2-37C J29-S3	61 76				.15 .20	NO NO		48 46	
A 467R			TB2-37A J29-T3	61 76				.15 .20	NO NO		48 46	
A 468	2		TB2-37B TB2-35C	61 59				.15 .15	NO NO		48 48	
A 469	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 58, 63 63	
A 469A	1		SHLD A469 E12	196				.25 .25	NO NO			
A 469L			J17-G* J29-D2	109 76				.25 .25	NO YES		47	
A 469R			J17-F* J29-D3	109 76				.25 .25	NO YES		47	
A 470	16				3.25 2.25	3.00 2.00				B,7 A,4	62 60, 61, 62	
A 470A	1		E8 SHLD A470	180				.25 .25	NO NO			
A 470L			J19-U* TB2-38D	106 62				.25 .15	NO NO		48	
A 470R			J19-B* TB2-38A	106 62				.25 .15	NO NO		48	
A 470Y			J19-A* TB2-38C	106 62				.25 .15	NO NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 115 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 471	9											
A 471L			TB2-38C J29-S1	61 76				.15 .20	NO NO		48 46	
A 471R			TB2-38A J29-T1	61 76				.15 .20	NO NO		48 46	
A 472	2		TB2-38B TB2-36A	61 61				.15 .15	NO NO		48 48	
A 473	16				3.25 2.25	3.00 2.00				B,7 A,4	62 60, 61, 62	
A 473B	1		E8 SHLD A473	180				.25 .25	NO NO			
A 473L			J18-Z TB2-39D	96 64				.25 .15	NO NO		48	
A 473R			J18-P* TB2-39A	96 64				.25 .15	NO NO		48	
A 473Y			J18-N* TB2-39C	96 64				.25 .15	NO NO		48	
A 474	2		TB2-39B TB2-36D	63 61				.15 .15	NO NO		48 48	
A 475	1		J30-B7 J29-L1	75 76				.25 .20	YES NO		46	
A 476	1		J29-L1 J29-L2	76 76				.20 .20	NO NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 116 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J29-L2 J29-L3	76 76				.20 .20	NO NO		46	
A 478	1		J29-L3 J29-L4	76 76				.20 .20	NO NO		46	
A 479	1		J29-L4 J29-L5	76 76				.20 .20	NO NO		46	
A 480	1		J29-L5 J29-L6	76 76				.20 .20	NO NO		46	
A 481	2		J29-L6 TB2-35B	76 59				.20 .15	NO NO		48	
A 482	2		TB2-33C TB2-35A	59 59				.15 .15	NO NO		48 48	
A 483	2		TB2-35A TB3-17N	60 119				.15 .25	NO NO		48 50	
A 484	2		TB2-35B TB3-17P	60 119				.15 .25	NO NO		48 50	
A 465	2		J29-R1 TB2-36B	76 61				.20 .15	NO NO		46 48	
A 486	2		TB2-36A TB3-17R	62 117				.15 .25	NO NO		48 50	
A 487	2		TB2-36B TB3-17S	62 117				.15 .25	NO NO		48 50	
A 488	2		J29-R2 TB2-36C	76 61				.20 .15	NO NO		46 48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 117 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	2		TB2-36C TB3-17R	62 117				.15 .25	NO NO		48 50	
A 490	2		TB2-36D TB3-17S	62 117				.15 .25	NO NO		48 50	
A 491	2		J29-R3 TB2-35D	76 59				.20 .15	NO NO		46 48	
A 492	2		TB2-35C TB3-17Q	60 119				.15 .25	NO NO		48 50	
A 493	2		TB2-35D TB3-17P	60 119				.15 .25	NO NO		48 50	
A 494	2		J29-S4 TB3-17T	76 117				.20 .25	NO NO		46 50	
A 495	2		J29-S5 TB3-17V	76 117				.20 .25	NO NO		46 50	
A 496	1		J27-T1 J27-T2	78 78				.20 .20	NO NO		46 46	
A 497	2		J27-T1 TB2-48A	78 69				.20 .15	NO NO		48	
A 498	2		J12-Q* TB2-48B	113 70				.25 .15	NO NO		48	
A 499	2		TB2-48A J30-R3	70 75				.15 .20	NO NO		48 46	
A 500	2		TB2-48B J30-R4	69 75				.15 .20	NO NO		48 46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 118 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	2		J15-H	110				.25	YES		43	
			J30-H2	75				.20	NO		46	
A 502	1		J15-H	110				.25	YES			
			J30-H2	75				.20	NO			
A 503	1		J15-H	110				.25	YES			
			J14-V*	111				.25	NO			
A 504	2		J15-P	110				.25	YES		43	
			J30-H3	75				.20	NO		46	
A 505	1		J15-P	110				.25	YES			
			J30-H3	75				.20	NO			
A 506	1		J15-P	110				.25	YES			
			J14-W*	111				.25	NO			
A 507	2		J15-K	110				.25	YES		43	
			TB2-49A	70				.15	NO		48	
A 508	1		J15-K	110				.25	YES			
			TB2-49B	70				.15	NO		49	
A 509	1		J15-K	110				.25	YES			
			J14-W	111				.25	NO			
A 510	2		TB2-49A	69				.15	NO		48	
			J30-T3	75				.20	NO		46	
A 511	2		TB2-49B	69				.15	NO		48	
			J30-S3	75				.20	NO		46	
A 512	2		J15-L	110				.25	YES		43	
			TB2-49C	70				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 119 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		J15-L	110				.25	YES			
			TB2-49D	70				.15	NO		49	
A 514	1		J15-L	110				.25	YES			
			J14-X	111				.25	NO			
A 515	2		TB2-49C	69				.15	NO		48	
			J30-T4	75				.20	NO		46	
A 516	2		TB2-49D	69				.15	NO		48	
			J30-S4	75				.20	NO		46	
A 517	2		J15-A	110				.25	YES		43	
			TB2-50A	70				.15	NO		48	
A 518	1		J15-A	110				.25	YES			
			TB2-50B	70				.15	NO		49	
A 519	2		J15-B	110				.25	YES		43	
			TB2-50C	70				.15	NO		48	
A 520	1		J15-B	110				.25	YES			
			TB2-50D	70				.15	NO		49	
A 521	1		J15-B	110				.25	YES		43	
			J14-Y	111				.25	NO			
A 522	2		TB2-50A	69				.15	NO		48	
			J30-P1	75				.20	NO		46	
A 523	2		TB2-50B	69				.15	NO		48	
			J30-R1	75				.20	NO		46	
A 524	2		TB2-50C	69				.15	NO		48	
			J30-S1	75				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 120 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	2		TB2-50D	69				.15	NO		48	
			J30-T1	75				.20	NO		46	
A 526	2		J15-C	110				.25	YES		43	
			TB2-51A	72				.15	NO		48	
A 527	1		J15-C	110				.25	YES			
			TB2-51B	72				.15	NO		49	
A 528	2		J15-D	110				.25	YES		43	
			TB2-51C	72				.15	NO		48	
A 529	1		J15-D	110				.25	YES			
			TB2-51D	72				.15	NO		49	
A 530	1		J15-D	110				.25	YES			
			J14-Z	111				.25	NO			
A 531	2		TB2-51A	71				.15	NO		48	
			J30-P2	75				.20	NO		46	
A 532	2		TB2-51B	71				.15	NO		48	
			J30-K2	75				.20	NO		46	
A 533	2		TB2-51C	71				.15	NO		48	
			J30-S2	75				.20	NO		46	
A 534	2		TB2-51D	71				.15	NO		48	
			J30-T2	75				.20	NO		46	
A 535	4		J15-E	110				.25	YES		43	
			TB3-18J	162				.25	NO		50	
A 536	4		J15-F	110				.25	YES		43	
			TB3-18F	162				.25	NO		50	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 121 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		J14-U*	111				.25	NO			
			TB3-18G	162				.25	NO		50	
A 538	2		J2-E	87				.25	NO			
			TB3-18C	164				.25	NO		50	
A 539	2		J5-N	92				.25	NO			
			TB3-18D	164				.25	NO		50	
A 540	2		J5-P	92				.25	NO			
			TB3-18A	164				.25	NO		50	
A 541	2		J5-R	92				.25	NO			
			TB3-18B	164				.25	NO		50	
A 542	2		J30-K1	75				.20	NO		46	
			TB3-18X	156				.25	NO		50	
A 543	2		J30-K2	75				.20	NO		46	
			TB3-18S	158				.25	NO		50	
A 544	2		J30-H1	75				.20	NO		46	
			TB3-18Q	158				.25	NO		50	
A 545	4		E219	888				.25	NO		51	
			TB3-18N	160				.25	NO		50	
A 546	2		J20-A	93				.25	YES		43	
			TB2-52A	72				.15	NO		48	
A 547	1		J20-A	93				.25	YES			
			TB2-52B	72				.15	NO		49	
A 548	2		J20-B	93				.25	YES		43	
			TB2-52C	72				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 122 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 549	1		J20-B	93				.25	YES			
			TB2-52D	72				.15	NO		49	
A 550	1		J20-b	93				.25	YES			
			J20-H	93				.25	YES		43	
A 551	2		TB2-52A	71				.15	NO		48	
			J30-R5	75				.20	NO		46	
A 552	2		TB2-52B	71				.15	NO		48	
			J30-S5	75				.20	NO		46	
A 553	2		TB2-52C	71				.15	NO		48	
			J30-T5	75				.20	NO		46	
A 554	2		J20-C	93				.25	YES		43	
			TB2-53A	72				.15	NO		48	
A 555	1		J20-C	93				.25	YES			
			TB2-53B	72				.15	NO		49	
A 556	2		J20-D	93				.25	YES		43	
			TB2-53C	72				.15	NO		48	
A 557	1		J20-D	93				.25	YES			
			TB2-53D	72				.15	NO		49	
A 558	1		J20-D	93				.25	YES			
			J20-F	93				.25	YES		43	
A 559	2		TB2-53A	71				.15	NO		48	
			J30-R6	75				.20	NO		46	
A 560	2		TB2-53B	71				.15	NO		48	
			J30-S6	75				.20	NO		46	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 123 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 561	2		TB2-53C	71				.15	NO		48	
			J30-T6	75				.20	NO		46	
A 562	2		J17-V*	109				.25	NO			
			TB3-17D	123				.25	NO		50	
A 563	4		J20-E	93				.25	YES		43	
			TB3-17G	123				.25	NO		50	
A 564	4		J20-J	93				.25	YES		43	
			TB3-17W	115				.25	NO		50	
A 565	2		J31-DD	89				.25	NO			
			TB3-17J	121				.25	NO		50	
A 566	2		J32-D*	90				.25	NO			
			TB3-17X	115				.25	NO		50	
A 567	2		J16-BB	112				.25	NO			
			TB3-17L	121				.25	NO		50	
A 568	2		J31-EE	89				.25	NO			
			TB3-17Y	115				.25	NO		50	
A 569	2		J32-A*	90				.25	NO			
			TB3-17N	119				.25	NO		50	
A 570	2		J30-P3	75				.20	NO		46	
			TB3-17Q	119				.25	NO		50	
A 571	2		J30-P4	75				.20	NO		46	
			TB3-17Z	115				.25	NO		50	
A 572	4		E219	88B				.25	NO		51	
			TB3-17V	117				.25	NO		50	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 124 OF [illegible]

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 573	1		J26-N4	79				.20	NO			
			TB3-2S	140				.25	NO		50	
A 574	2		J2-G	87				.25	NO			
			TB3-2P	142				.25	NO		50	
A 575	4		E219	88B				.25	NO		71	
			TB3-2M	142				.25	NO		50	
A 576	4		E219	88B				.25	NO		51	
			TB3-1V	133				.25	NO		50	
A 577	2		J18-B	96				.25	NO			
			TB3-1G	137				.25	NO		50	
A 578	2		J19-B	106				.25	NO			
			TB3-1C	140A				.25	NO		50	
A 579	2		J5-B	92				.25	NO			
			TB3-1S	133				.25	NO		50	
A 580	4		J15-G	110				.25	YES		43	
			TB3-1T	133				.25	NO		50	
A 581	4		J20-G	93				.25	YES		43	
			TB3-1K	137				.25	NO		50	
A 582	3		J20-K	93				.25	YES		66	
			TB3-1M	135				.25	NO		50	
A 583	2		J31-B	89				.25	NO			
			TB3-1P	135				.25	NO		50	
A 584	2		J32-B	90				.25	NO			
			TB3-1R	133				.25	NO		50	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 125 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 585	1		J16-B	112				.25	NO			
			TB3-1A	139				.25	NO		50	
A 586	2		J14-X*	111				.25	NO			
			TB3-7A	150				.15	NO		48	
A 587	2		E219	88B				.25	NO		51	
			TB3-7B	150				.15	NO		48	
A 588	2		E219	88B				.25	NO		51	
			TB3-7C	150				.15	NO		48	
A 589	2		TB2-47B	68				.15	NO		48	
			J22-S6	83				.20	NO		46	
A 590	1		TB2-47A	68				.15	NO		49	
			J17-CC	109				.25	NO			
A 591	2		TB2-47A	67				.15	NO		48	
			J30-P5	75				.20	NO		46	
A 592	2		J30-M5	75				.20	NO		46	
			TB2-54B	73				.15	NO		48	
A 593	2		J30-N5	75				.20	NO		46	
			TB2-54C	73				.15	NO		48	
A 594	2		TB2-54A	73				.15	NO		48	
			J22-L1	83				.20	NO		46	
A 595	2		TB2-54B	74				.15	NO		48	
			J27-K5	78				.20	NO		46	
A 596	2		TB2-54C	74				.15	NO		48	
			J12-D*	113				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 126 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 597	2		T82-54D	74				.15	NO		48	
			J5-K*	92				.25	NO			
A 598	1		J11-Y	114				.25	NO			
			J22-L2	83				.20	NO		46	
A 599	1		J22-N6	83				.20	NO		46	
			J22-K6	83				.20	NO		46	
A 600	2		J22-K6	83				.20	NO			
			T83-17X	115				.25	NO		50	
A 601	8											
A 601L			J17-K	109				.25	NO			
			T83-8B	150				.15	NO		49	
A 601R			J17-J	109				.25	NO			
			T83-8A	150				.15	NO		49	
A 602	2		T83-17Z	115				.25	NO		50	
			T83-9A	128				.15	NO		48	
A 603	13											
A 603L			T83-8B	129				.15	NO		49	
			J32-BB	90				.25	NO			
A 603R			T83-8A	129				.15	NO		49	
			J32-AA	90				.25	NO			
A 603Y			T83-9B	129				.15	NO		49	
			J32-CC	90				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 127 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 604	1		J17-L	109				.25	NO			
			T83-8C	150				.15	NO		49	
A 605	8											
A 605L			T83-8D	129				.15	NO		49	
			J31-X	89				.25	NO			
A 605R			T83-8C	129				.15	NO		49	
			J31-W	89				.25	NO			
A 606	1		T83-8D	150				.15	NO		49	
			T83-9B	151				.15	NO		49	
A 607	9											
A 607L			J29-S2	76				.20	NO		46	
			T82-39C	63				.15	NO		48	
A 607R			J29-T2	76				.20	NO		46	
			T82-39A	63				.15	NO		48	
A 608	8											
A 608L			J12-F*	113				.25	NO			
			K13-11	164A				.25	YES		45	
A 608R			J12-E*	113				.25	NO			
			K13-4	164A				.25	YES		45	
A 610	12											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 128 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 610K			J21-M2	84				.20	NO		46	
			T81-12D	7				.15	NO		48	
A 610L			J21-M1	84				.20	NO		46	
			T81-11B	7				.15	NO		48	
A 610R			J21-L1	84				.20	NO		46	
			T81-11A	7				.15	NO		48	
A 610Y			J21-L2	84				.20	NO		46	
			T81-12C	7				.15	NO		48	
A 611	11				2.25	2.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 611A	1		SHLD A611					.25	NO			
			E22	170				.25	NO			
A 611L			T81-12C	8				.15	NO		48	
			K13-2	164A				.25	YES		45	
A 611R			T81-11A	8				.15	NO		48	
			K13-6	164A				.25	YES		45	
A 612	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 612B	1		E22	170				.25	NO			
			SHLD A612					.25	NO			
A 612L			J12-C	113				.25	NO			
			T81-12B	8				.15	NO		48	
A 612R			J12-A	113				.25	NO			
			T81-11B	8				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 129 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 613	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 613B	1		E22	170				.25	NO			
			SHLD A613					.25	NO			
A 613L			J5-Q*	92				.25	NO			
			T81-12B	7				.15	NO		48	
A 613R			J5-P*	92				.25	NO			
			T81-11C	7				.15	NO		48	
A 614	11				3.25	3.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 614A	1		SHLD A614					.25	NO			
			E29	193				.25	NO			
A 614L			K13-3	164A				.25	YES		45	
			J1-S	86				.25	NO			
A 614R			K13-5	164A				.25	YES		45	
			J1-R	86				.25	NO			
A 615	11				3.25	3.00				A,4	59, 58, 63	
					3.25	3.00				B,7	63	
A 615A	1		SHLD A615					.25	NO			
			E29	193				.25	NO			
A 615L			K13-3	164A				.25	YES			
			J14-B*	111				.25	NO			
A 615R			K13-5	164A				.25	YES			
			J14-A*	111				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 130 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 616	11				3.25 3.25	3.00 3.00				6,7 A,4	63 59, 58, 63	
A 616B	1		E26 SHLD A616	192				.25 .25	NO NO			
A 616L			K13-1 J14-C	164A 111				.25 .25	YES NO		45	
A 616R			K13-7 J14-A	164A 111				.25 .25	YES NO		45	
A 617	10				3.25 3.25	3.00 3.00				A,4 B,7	57, 56, 63 63	
A 617A	1		SHLD A617 E23	166				.25 .25	NO NO			
A 617L			J1-U K13-10	86 164A				.25 .25	NO YES		45	
A 617R			J1-T K13-12	86 164A				.25 .25	NO YES		45	
A 618	10				3.25 3.25	3.00 3.00				A,4 B,7	57, 56, 63 63	
A 618A	1		SHLD A618 E29	193				.25 .25	NO NO			
A 618L			K13-8 J12-B*	164A 113				.25 .25	YES NO		45	
A 618R			K13-14 J12-A*	164A 113				.25 .25	YES NO		45	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 131 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 619	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 619A	1		SHLD A619 E29	193				.25 .25	NO NO			
A 619L			K13-9 J21-G3	164A 84				.25 .20	YES NO		45 46	
A 619R			K13-13 J21-F3	164A 84				.25 .20	YES NO		45 46	
A 620	10				2.25 3.25	2.00 3.00				A,4 B,7	57, 56, 63 63	
A 620A	1		SHLD A620 E22	170				.25 .25	NO NO			
A 620L			J21-G3 J13-V	84 91				.20 .25	NO NO			
A 620R			J21-F3 J13-U	84 91				.20 .25	NO NO			
A 621	2		TB1-12D J22-K2	8 83				.15 .20	NO NC		48 46	
A 622	10				3.25 2.25	3.00 2.00				A,4 B,7	57, 56, 63 63	
A 622A	1		SHLD A622 E25	188				.25 .25	NO NO			
A 622L			J32-NN TB2-55C	90 74				.25 .15	NO NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 132 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 622R			J32-MM TB2-55A	90 74				.25 .15	NO NO		49	
A 623	8											
A 623L			TB2-55C J30-A8	73 75				.15 .25	NO YES		49 47	
A 623R			TB2-55A J30-A7	73 75				.15 .25	NO YES		49 47	
A 624	10				2.25 1.50	2.00 1.25				A,5 B,7	57, 56, 63 63	
A 624A	1		SHLD A624 TB2-55D	74				.25 .15	NO NO		49	
A 624L			J30-C3 TB5-19	75 211				.25 .25	YES YES		47	
A 624R			J30-C4 TB5-20	75 210				.25 .25	YES YES		47	
A 625	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 625B	1		TB5-21 SHLD A625	209				.25	NO			
A 625E			J6-K1 TB5-23	108 207				.15 .25	NO YES		40	
A 625X			J6-K2 SHLD A625	108								

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 133 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 626	1		TB5-21 TB2-55D	209 73				.25 .15	YES NO		49	
A 627	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	
A 627A	1		SHLD A627 J48	102				.25 .25	NO YES			
A 627B	1		TB5-21 SHLD A627	209				.25 .25	YES NO			
A 627E			J47 TB5-22	102 208				.25 .25	YES YES			
A 628	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 628A	1		SHLD A628 E9	168				.25 .25	NO NO			
A 628L			J22-F4 TB5-1	83 197				.20	NO		46	
A 628R			J22-D4 TB5-2	83 198				.20 .25	NO YES		46	
A 629	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 629B	1		TB5-3 SHLD A629	199				.25 .25	YES NO			
A 629E			J8-D1 TB5-5	94 201				.15 .25	NO YES		40	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 134 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 629X			J8-D2 SHLD A629	94								
A 630	1		TB5-3 E10	199 182				.25 .25	YES NO			
A 631	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 631A	1		SHLD A631 E9	 168				.25 .25	NO NO			
A 631L			J22-F5 TB5-7	83 202				.20 .25	NO YES		46	
A 631R			J22-D5 TB5-8	83 203				.20 .25	NO YES		46	
A 632	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 632B	1		TB5-9 SHLD A632	204 				.25 .25	YES NO			
A 632E			J8-C1 TB5-11	94 206				.15 .25	NO YES		40	
A 632X			J8-C2 SHLD A632	94 								
A 633	1		TB5-9 E10	204 182				.25 .25	YES NO			
A 634	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 135 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 634A	1		SHLD A634 J42	 98				.25 .25	NO YES			
A 634B	1		TB5-9 SHLD A634	204 				.25 .25	YES NO			
A 634E			J41 TB5-10	98 206				.25 .25	YES YES			
A 635	10				2.25 1.50	2.00 1.25				A,4 B,7	57, 56, 63 63	
A 635A	1		SHLD A635 E9	 168				.25 .25	NO NO			
A 635L			J22-F6 TB5-13	83 216				.20 .25	NO YES		46	
A 635R			J22-D6 TB5-14	83 215				.20 .25	NO YES		46	
A 636	7				.52 1.50	.25 1.25				B,10 A,5	41, 42, 63 53, 52, 63	
A 636B	1		TB5-15 SHLD A636	214 				.25 .25	YES NO			
A 636E			J8-B1 TB5-17	94 212				.15 .25	NO YES		40	
A 636X			J8-B2 SHLD A636	94 								
A 637	1		TB5-15 E10	214 182				.25 .25	YES NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 136 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 638	7				3.25 1.50	3.00 1.25				A,5 A,5	53, 52, 63 53, 52, 63	
A 638A	1		SHLD A638 J44	 98				.25 .25	NO YES			
A 638B	1		TB5-15 SHLD A638	214 				.25 .25	YES NO			
A 638E			J43 TB5-16	98 213				.25 .25	YES YES			
A 639	1		J21-N3 TB1-26A	84 17				.20 .15	NO NO		46 49	
A 640	2		TB1-26A J22-P4	18 83				.15 .20	NO NO		48 46	
A 641	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 641B	1		TB1-28D SHLD A641	18 				.15 .25	NO NO		49	
A 641E			J10-D1 TB1-26B	97 18				.15 .15	NO NO		40 49	
A 641X			J10-D2 SHLD A641	97 								
A 642	5				2.25 1.50	2.00 1.25				A,4 B,7	53, 52, 63 63	
A 642A	1		SHLD A642 E21	 167				.25 .25	NO NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 137 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 642W			TB1-26B J27-R3	17 76				.15 .20	NO NO		49 46	
A 643	2		TB1-28B J22-R2	17 83				.15 .20	NO NO		48 46	
A 644	2		TB1-28C J22-R3	17 83				.15 .20	NO NO		48 46	
A 645	2		E9 TB1-28A	168 17				.25 .15	NO NO		48	
A 646	2		E10 TB1-28A	182 18				.25 .15	NO NO		48	
A 647	2		TB1-14B TB1-28B	10 18				.15 .15	NO NO		48 48	
A 648	2		TB1-28C TB3-18L	18 160				.15 .25	NO NO		48 50	
A 649	2		TB1-28D TB3-18J	17 102				.15 .25	NO NO		48 50	
A 650	1		J22-R3 J22-R4	83 83				.20 .20	NO NO		46	
A 651	2		TB1-25D TB1-27A	15 17				.15 .15	NO NO		48 48	
A 652	2		TB1-18C TB1-27D	11 17				.15 .15	NO NO		48 48	
A 653	2		TB1-27B J22-R4	17 83				.15 .20	NO NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 138 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 654	2		TB1-27C	17				.15	NO		48	
			J22-K5	83				.20	NO		46	
A 655	2		TB1-27B	18				.15	NO		48	
			TB3-18D	164				.25	NO		50	
A 656	2		TB1-27C	18				.15	NO		48	
			TB3-18B	164				.25	NO		50	
A 657	2		J22-B5	83				.20	NO		46	
			TB3-18A	164				.25	NO		50	
A 658	2		J22-G5	83				.20	NO		46	
			TB3-18C	164				.25	NO		50	
A 659	2		J17-H	109				.25	NO			
			TB3-12D	152				.15	NO		48	
A 660	2		TB3-12A	127				.15	NO		48	
			E11	194				.25	NO			
A 661	1		E11	194				.25	NO			
			J18-KK	96				.25	NO			
A 662	1		E11	194				.25	NO			
			J19-KK	106				.25	NO			
A 663	1		E11	194				.25	NO			
			J31-MM	89				.25	NO			
A 664	1		E11	194				.25	NO			
			J32-PP	90				.25	NO			
A 665	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 139 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 665A	1		SHLD A665					.25	NO			
			TB3-12C	151				.15	NO		49	
A 665L			J17-E	109				.25	NO			
			TB3-11B	151				.15	NO		48	
A 665R			J17-D	109				.25	NO			
			TB3-10B	151				.15	NO		48	
A 666	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 666A	1		SHLD A666					.25	NO			
			TB3-12B	151				.15	NO		49	
A 666L			J17-G	109				.25	NO			
			TB3-11C	151				.15	NO		48	
A 666R			J17-F	109				.25	NO			
			TB3-10C	151				.15	NO		48	
A 667	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 667A	1		SHLD A667					.25	NO			
			TB3-12C	128				.15	NO		49	
A 667L			TB3-11A	128				.15	NO		49	
			J18-J	96				.25	NO			
A 667R			TB3-10A	128				.15	NO		49	
			J18-H	96				.25	NO			
A 668	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 140 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 668A	1		SHLD A668					.25	NO			
			TB3-12A	151				.15	NO		49	
A 668L			TB3-11A	151				.15	NO		49	
			J19-J	106				.25	NO			
A 668R			TB3-10A	151				.15	NO		49	
			J19-H	106				.25	NO			
A 669	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 669A	1		SHLD A669	128				.25	NO			
			TB3-12B	128				.15	NO		49	
A 669L			TB3-11C	128				.15	NO		49	
			J31-N*	89				.25	NO			
A 669R			TB3-10C	128				.15	NO		49	
			J31-M*	89				.25	NO			
A 670	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 670A	1		SHLD A670					.25	NO			
			TB3-12D	128				.15	NO		49	
A 670L			TB3-11D	128				.15	NO		49	
			J32-T*	90				.25	NO			
A 670R			TB3-10D	128				.15	NO		49	
			J32-S*	90				.25	NO			
A 671	2		TB3-1F	137				.25	NO		50	
			TB3-13B	126				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 141 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 672	2		TB3-1H	137				.25	NO		50	
			TB3-14B	126				.15	NO		48	
A 673	2		TB3-1L	135				.25	NO		50	
			TB3-15B	125				.15	NO		48	
A 674	2		TB3-1N	135				.25	NO		50	
			TB3-16B	125				.15	NO		48	
A 675	2		E7	181				.25	NO			
			TB3-13A	153				.15	NO		48	
A 676	2		E8	180				.25	NO			
			TB3-13A	126				.15	NO		48	
A 677	2		E12	196				.25	NO			
			TB3-13B	153				.15	NO		48	
A 678	2		E13	179				.25	NO			
			TB3-13C	126				.15	NO		48	
A 679	2		E14	178				.25	NO			
			TB3-13C	153				.15	NO		48	
A 680	2		E15	177				.25	NO			
			TB3-13D	153				.15	NO		48	
A 681	2		E16	176				.25	NO			
			TB3-13D	126				.15	NO		48	
A 682	2		E17	171				.25	NO			
			TB3-14A	126				.15	NO		48	
A 683	2		F18	175				.25	NO			
			TB3-14A	153				.15	NO		48	

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A	99974	1902255
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 684	2		E19	172				.25	NO			
			TB3-14B	153				.25	NO		48	
A 685	2		E20	169				.25	NO			
			TB3-14C	126				.15	NO		48	
A 686	2		E21	167				.25	NO			
			TB3-14C	153				.15	NO		48	
A 687	2		E22	170				.25	NO			
			TB3-14D	126				.15	NO		48	
A 688	2		E23	166				.25	NO			
			TB3-14D	153				.15	NO		48	
A 689	2		E24	165				.25	NO			
			TB3-15A	125				.15	NO		48	
A 690	2		E25	188				.25	NO			
			TB3-15A	154				.15	NO		48	
A 691	2		E26	191				.25	NO			
			TB3-15B	154				.15	NO		48	
A 692	2		E27	189				.25	NO			
			TB3-15C	125				.15	NO		48	
A 693	2		E28	192				.25	NO			
			TB3-15C	154				.15	NO		48	
A 694	2		E29	193				.25	NO			
			TB3-15D	154				.15	NO		48	
A 695	2		E30	195				.25	NO			
			TB3-15D	125				.15	NO		48	

SIZE	CODE IDENT NO.	
A	99974	1902255

SCALE-NONE | REV LTR G | SHEET 143 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 696	15				3.25	3.00				A,5	59, 65, 63	
					2.25	2.00				A,5	59, 65, 63	
A 696A	1		SHLD A696					.25	NO			
			J18-U*	96				.25	NO			
A 696B	1		J27-D9	78				.25	YES		47	
			SHLD A696					.25	NO			
A 696L			J18-S*	96				.25	NO			
			J27-F9	78				.25	YES		47	
A 696R			J18-R*	96				.25	NO			
			J27-C9	78				.25	YES		47	
A 696Y			J18-T*	96				.25	NO			
			J27-D9	78				.25	YES			
A 697	15				3.25	3.00				A,5	59, 65, 63	
					2.25	2.00				A,5	59, 65, 63	
A 697A	1		SHLD A697					.25	NO			
			J19-G*	106				.25	NO			
A 697B	1		J27-A7	78				.25	YES		47	
			SHLD A697					.25	NO			
A 697L			J19-E*	106				.25	NO			
			J27-A8	78				.25	YES		47	
A 697R			J19-D*	106				.25	NO			
			J27-A6	78				.25	YES		47	
A 697Y			J19-F*	106				.25	NO			
			J27-A7	78				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	1902255

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MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 698	13											
A 698L			J27-K4	78				.20	NO		46	
			TB2-5C	39				.15	NO		49	
A 698R			J27-G4	78				.20	NO		46	
			TB2-5A	39				.15	NO		49	
A 698Y			J27-H4	78				.20	NO		46	
			TB2-6A	39				.15	NO		49	
A 699	13											
A 699L			TB2-5D	39				.15	NO		49	
			J28-K4	77				.20	NO		46	
A 699R			TB2-5B	39				.15	NO		49	
			J28-G4	77				.20	NO		46	
A 699Y			TB2-6B	39				.15	NO		49	
			J28-H4	77				.20	NO		46	
A 700	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 700B	1		TB2-6A	40				.15	NO		49	
			SHLD A700					.25	NO			
A 700E			J7-K1	95				.15	NO		40	
			TB2-5A	40				.15	NO		49	
A 700X			J7-K2	95								
			SHLD A700									

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A	99974	1902255

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 701	7				.52	.25				B,10	41, 42, 63	
					2.25	2.00				A,5	53, 52, 63	
A 701B	1		TB2-6B	40				.15	NO		49	
			SHLD A701					.25	NO			
A 701E			J7-H1	95				.15	NO		40	
			TB2-5C	40				.15	NO		49	
A 701X			J7-H2	95								
			SHLD A701									
A 702	13											
A 702L			J27-K6	78				.20	NO		46	
			TB2-7C	41				.15	NO		49	
A 702R			J27-G6	78				.20	NO		46	
			TB2-7A	41				.15	NO		49	
A 702Y			J27-H6	78				.20	NO		46	
			TB2-6C	41				.15	NO		49	
A 703	13											
A 703L			J28-K6	77				.20	NO		46	
			TB2-7D	41				.15	NO		49	
A 703R			J28-G6	77				.20	NO		46	
			TB2-7B	41				.15	NO		49	
A 703Y			J28-H6	77				.20	NO		46	
			TB2-6D	41				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 704	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 704B	1		TB2-6C SHLD A704	42				.15 NO .25 NO			49	
A 704E			J7-G1 TB2-7A	95 42				.15 NO .15 NO			40 49	
A 704X			J7-G2 SHLD A704	95								
A 705	7				.52 2.25	.25 2.00				B,10 A,5	41, 42, 63 53, 52, 63	
A 705B	1		TB2-6D SHLD A705	42				.15 NO .25 NO			49	
A 705E			J7-J1 TB2-7C	95 42				.15 NO .15 NO			40 49	
A 705X			J7-J2 SHLD A705	95								
A 706	1		J27-A9 J27-B9	78 78				.25 YES .25 YES			47 47	
A 707	11				3.25 2.25	3.00 2.00				B,7 A,4	63 59, 58, 63	
A 707B	1		E15 SHLD A707	177				.25 NO .25 NO				
A 707L			J2-R J27-N4	87 78				.25 NO .20 NO			46	

SIZE	CODE IDENT NO.	1902255
A	99974	
SCALE-NONE	REV LTR G	SHEET 147 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 707R			J2-X J27-M4	87 78				.25 NO .20 NO			46	
A 708	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 708A	1		SHLD A708 E7	181				.25 NO .25 NO				
A 708L			J2-A* J27-C5	87 78				.25 NO .25 YES			47	
A 708R			J2-Z J27-C6	87 78				.25 NO .25 YES			47	
A 709	1		J5-AA J27-C7	92 78				.25 NO .25 YES			47	
A 710	1		J13-W J27-C8	91 78				.25 NO .25 YES			47	
A 711	11				3.25 2.25	3.00 2.00				A,4 B,7	59, 58, 63 63	
A 711A	1		SHLD A711 E7	181				.25 NO .25 NO				
A 711L			J2-L J27-B5	87 78				.25 NO .25 YES			47	
A 711R			J2-M J27-B6	87 78				.25 NO .25 YES			47	
A 712	1		J12-D J27-B8	113 78				.25 NO .25 YES			47	

SIZE	CODE IDENT NO.	1902255
A	99974	
SCALE-NONE	REV LTR G	SHEET 148 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 713	1		J12-E J27-D7	113 76				.25 NO .25 YES			47	
A 714	1		J5-BB J27-F7	92 78				.25 NO .25 YES			47	
A 715	1		J5-A J27-D5	92 78				.25 NO .25 YES			47	
A 716	1		J12-AA J27-F5	113 76				.25 NO .25 YES			47	
A 717	1		J12-BB J27-F4	113 78				.25 NO .25 YES			47	
A 718	1		J12-DD J27-F3	113 78				.25 NO .25 YES			47	
A 719	1		J12-EE J27-F6	113 78				.25 NO .25 YES			47	
A 720	8											
A 720L			J5-HH K1-5	92 88A				.25 NO .25 YES			44	
A 720R			J5-GG K1-1	92 88A				.25 NO .25 YES			44	
A 721	8											
A 721L			K1-5 K6-5	88A 88A				.25 YES .25 YES			44	

SIZE	CODE IDENT NO.	1902255
A	99974	
SCALE-NONE	REV LTR G	SHEET 149 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 721R			K1-1 K6-1	88A 88A				.25 YES .25 YES			44	
A 722	8											
A 722L			J5-CC K5-5	92 88A				.25 NO .25 YES			44	
A 722R			J5-EE K5-1	92 88A				.25 NO .25 YES			44	
A 723	8											
A 723L			J5-DD K2-5	92 88A				.25 NO .25 YES			44	
A 723R			J5-W* K2-1	92 88A				.25 NO .25 YES			44	
A 724	2		J2-Y K2-7	87 88A				.25 NO .25 YES			44	
A 725	2		K2-7 K5-7	88A 88A				.25 YES .25 YES			44	
A 726	2		K2-4 J27-L1	88A 78				.25 YES .20 NO			44 46	
A 727	2		K5-4 J27-M1	88A 78				.25 YES .20 NO			44 46	
A 728	2		K1-8 J27-G1	88A 78				.25 YES .20 NO			44 46	

SIZE	CODE IDENT NO.	1902255
A	99974	
SCALE-NONE	REV LTR G	SHEET 150 OF 174

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 729	2		K1-3	88A				.25	YES		44	
			K4-8	88A				.25	YES		44	
A 730	2		K4-8	88A				.25	YES			
			J27-N5	78				.20	NO		46	
A 731	2		J27-N6	78				.20	NO		46	
			K2-8	88A				.25	YES		44	
A 732	2		K2-3	88A				.25	YES		44	
			J27-M5	78				.20	NO		46	
A 733	2		K2-8	88A				.25	YES			
			K4-3	88A				.25	YES		44	
A 734	2		K4-3	88A				.25	YES			
			K3-4	88A				.25	YES		44	
A 735	2		K3-7	88A				.25	YES		44	
			J27-M6	78				.20	NO		46	
A 736	2		J27-H2	78				.20	NO		46	
			K1-7	88A				.25	YES		44	
A 737	2		K1-7	88A				.25	YES			
			K5-8	88A				.25	YES		44	
A 738	2		K5-3	88A				.25	YES		44	
			J27-G2	78				.20	NO		46	
A 739	2		K1-4	88A				.25	YES		44	
			J27-H1	78				.20	NO		46	
A 740	2		K6-6	88A				.25	YES		44	
			K6-1	88A				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 151 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 741	1		J5-X*	92				.25	NO			
			K4-5	88A				.25	YES		44	
A 742	1		K4-1	88A				.25	YES		44	
			K6-4	88A				.25	YES		44	
A 743	1		J5-Y*	92				.25	NO			
			K6-6	88A				.25	YES			
A 744	1		J5-Z*	92				.25	NO			
			K3-1	88A				.25	YES		44	
A 745	1		K4-5	88A				.25	YES			
			K3-5	88A				.25	YES			
A 746	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 746B	1		E15	177				.25	NO			
			SHLD A746					.25	NO			
A 746L			J2-W	87				.25	NO			
			J27-N1	78				.20	NO		46	
A 746R			J2-V	87				.25	NO			
			J27-P1	78				.20	NO		46	
A 747	2		J2-K	87				.25	NO			
			J27-M2	78				.20	NO		46	
A 748	1		J12-F	113				.25	NO			
			J27-D6	78				.25	YES		47	
A 749	1		J12-G	113				.25	NO			
			J27-B7	78				.25	YES		47	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 152 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 750	1		J27-M3	78				.20	NO		46	
			J22-F3	83				.20	NO		46	
A 751	1		J22-F3	83				.20	NO			
			J12-C*	113				.25	NO			
A 752	1		J11-L	114				.25	NO			
			J27-L3	78				.20	NO		46	
A 753	11				3.25	3.00				A,4	59, 58, 63	
					2.25	2.00				B,7	63	
A 753A	1		SHLD A753					.25	NO			
			E26	191				.25	NO			
A 753L			J5-T	92				.25	NO			
			TB2-8B	42				.15	NO		48	
A 753R			J5-S	92				.25	NO			
			TB2-8A	42				.15	NO		48	
A 754	11				3.25	3.00				B,7	63	
					2.25	2.00				A,4	59, 58, 63	
A 754B	1		E15	177				.25	NO			
			SHLD A754					.25	NO			
A 754L			J2-G*	87				.25	NO			
			TB2-8B	41				.15	NO		48	
A 754R			J2-F*	87				.25	NO			
			TB2-10C	41				.15	NO		48	
A 755	9											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 153 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 755L			TB2-10D	41				.15	NO		48	
			J27-P4	78				.20	NO		46	
A 755R			TB2-8A	41				.15	NO		48	
			J27-R4	78				.20	NO		46	
A 757	1		J12-P*	113				.25	NO			
			J27-P5	78				.20	NO		46	
A 758	1		J14-S	111				.25	NO			
			J27-P6	78				.20	NO		46	
A 759	2		J27-R1	78				.20	NO		46	
			J21-S3	84				.20	NO		46	
A 760	2		J14-PP	111				.25	NO			
			J27-T3	78				.20	NO		46	
A 761	1		J27-T3	78				.20	NO			
			J27-T4	78				.20	NO		46	
A 762	9											
A 762L			J22-N6	83				.20	NO			
			TB1-21B	13				.15	NO		48	
A 762R			J22-P6	83				.20	NO		46	
			TB1-20B	13				.15	NO		48	
A 763	10				2.25	2.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 763A	1		SHLD A763					.25	NO			
			E21	167				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 154 OF 174

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 775A	1		SHLD A775					.25	NO			
			J32-J	90				.25	NO			
A 775B	1		J28-B7	77				.25	YES		47	
			SHLD A775					.25	NO			
A 775E			J32-H	90				.25	NO			
			J28-A7	77				.25	YES		47	
A 776	9											
A 776L			J29-G6	76				.20	NO		46	
			J28-G1	77				.20	NO		46	
A 776R			J29-G5	76				.20	NO		46	
			J28-G2	77				.20	NO		46	
A 777	16				3.25	3.00				B,7	62	
					2.25	2.00				A,4	60, 61, 62	
A 777B	1		F14	178				.25	NO			
			SHLD A777					.25	NO			
A 777L			J32-F	90				.25	NO			
			TB2-16B	48				.15	NO		48	
A 777R			J32-E	90				.25	NO			
			TB2-16A	48				.15	NO		48	
A 777Y			J32-D	90				.25	NO			
			TB2-16D	48				.15	NO		48	
A 778	9											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 159 OF 17

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 778L			TB2-16D	47				.15	NO		48	
			J28-T5	77				.20	NO		46	
A 778R			TB2-16A	47				.15	NO		48	
			J28-S5	77				.20	NO		46	
A 780	1		J28-M3	77				.20	NO		46	
			TB2-17A	47				.15	NO		49	
A 781	1		J28-M4	77				.20	NO		46	
			TB2-17B	47				.15	NO		49	
A 782	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 782A	1		SHLD A782					.25	NO			
			E14	178				.25	NO			
A 782L			TB2-17C	48				.15	NO		49	
			J16-F	112				.25	NO			
A 782R			TB2-17A	48				.15	NO		49	
			J16-E	112				.25	NO			
A 783	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 783A	1		SHLD A783					.25	NO			
			E14	178				.25	NO			
A 783L			TB2-17D	48				.15	NO		49	
			J16-K	112				.25	NO			
A 783R			TB2-17B	48				.15	NO		49	
			J16-J	112				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 160 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 784	2		TB2-19D	49				.15	NO		48	
			TB2-18D	49				.15	NO		48	
A 785	1		J28-M1	77				.20	NO		46	
			TB2-18A	49				.15	NO		49	
A 786	1		J28-M2	77				.20	NO		46	
			TB2-18B	49				.15	NO		49	
A 787	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 787A	1		SHLD A787					.25	NO			
			E14	178				.25	NO			
A 787L			TB2-18C	50				.15	NO		49	
			J16-K*	112				.25	NO			
A 787R			TB2-18A	50				.15	NO		49	
			J16-J*	112				.25	NO			
A 788	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 788A	1		SHLD A788					.25	NO			
			E14	178				.25	NO			
A 788L			TB2-18D	50				.15	NO		49	
			J16-H*	112				.25	NO			
A 788R			TB2-18B	50				.15	NO		49	
			J16-G*	112				.25	NO			
A 789	1		J28-M5	77				.20	NO		46	
			TB2-19A	49				.15	NO		49	

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 161 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 790	1		J28-M6	77				.20	NO		46	
			TB2-19B	49				.15	NO		49	
A 791	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 791A	1		SHLD A791					.25	NO			
			E14	178				.25	NO			
A 791L			TB2-19C	50				.15	NO		49	
			J16-D*	112				.25	NO			
A 791R			TB2-19A	50				.15	NO		49	
			J16-C*	112				.25	NO			
A 792	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 792A	1		SHLD A792					.25	NO			
			E14	178				.25	NO			
A 792L			TB2-19D	50				.15	NO		49	
			J16-D	112				.25	NO			
A 792R			TB2-19B	50				.15	NO		49	
			J16-C	112				.25	NO			
A 793	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 793A	1		SHLD A793					.25	NO			
			J32-Y*	90				.25	NO			
A 793B	1		TB2-20A	50				.15	NO		49	
			SHLD A793					.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 162 OF 174

MIL 2084 9-85

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 793L			J32-E*	90				.25	NO			
			TB2-21A	52				.15	NO		49	
A 793R			J32-F*	90				.25	NO			
			TB2-20B	50				.15	NO		49	
A 794	10				2.25	2.00				A,5	57, 56, 63	
					3.25	3.00				A,5	57, 56, 63	
A 794A	1		SHLD A794					.25	NO			
			TB2-20C	50				.15	NO		49	
A 794B	1		J19-DD	106				.25	NO			
			SHLD A794					.25	NO			
A 794L			TB2-21B	50				.15	NO		49	
			J19-U*	106				.25	NO			
A 794R			TB2-20D	50				.15	NO		49	
			J19-P*	106				.25	NO			
A 795	8											
A 795L			TB2-21A	49				.15	NO		49	
			J28-C2	77				.25	YES		47	
A 795R			TB2-20B	49				.15	NO		49	
			J28-C1	77				.25	YES		47	
A 796	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 796A	1		SHLD A796					.25	NO			
			J32-L*	90				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 163 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 796B	1	.	J28-B9	77				.25	YES		47	
			SHLD A796					.25	NO			
A 796E			J32-B*	90				.25	NO			
			J28-A9	77				.25	YES		47	
A 797	9											
A 797L			J29-H6	76				.20	NO		46	
			J28-H1	77				.20	NO		46	
A 797R			J29-K6	76				.20	NO		46	
			J28-K1	77				.20	NO		46	
A 798	9											
A 798L			J28-T6	77				.20	NO		46	
			TB2-22D	51				.15	NO		48	
A 798R			J28-S6	77				.20	NO		46	
			TB2-22A	51				.15	NO		48	
A 799	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 799A	1		SHLD A799					.25	NO			
			E14	178				.25	NO			
A 799L			TB2-22B	52				.15	NO		48	
			J32-W	90				.25	NO			
A 799R			TB2-22A	52				.15	NO		48	
			J32-V	90				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 164 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 799Y			TB2-22D	52				.15	NO		48	
			J32-U	90				.25	NO			
A 801	10				3.25	3.00				A,5	57, 56, 63	
					2.25	2.00				A,5	57, 56, 63	
A 801A	1		SHLD A801					.25	NO			
			J31-F*	89				.25	NO			
A 801B	1		J28-D5	77				.25	YES		47	
			SHLD A801					.25	NO			
A 801L			J31-D*	89				.25	NO			
			J28-C5	77				.25	YES		47	
A 801R			J31-E*	89				.25	NO			
			J28-D5	77				.25	YES			
A 802	9											
A 802L			J28-T4	77				.20	NO		46	
			TB2-23D	51				.15	NO		48	
A 802R			J28-S4	77				.20	NO		46	
			TB2-23A	51				.15	NO		48	
A 804	16				2.25	2.00				A,4	60, 61, 62	
					3.25	3.00				B,7	62	
A 804A	1		SHLD A804					.25	NO			
			E14	178				.25	NO			
A 804L			TB2-23B	52				.15	NO		48	
			J31-V	89				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 165 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 804R			TB2-23A	52				.15	NO		48	
			J31-U	89				.25	NO			
A 804Y			TB2-23D	52				.15	NO		48	
			J31-T	89				.25	NO			
A 805	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 805A	1		SHLD A805					.25	NO			
			J31-C*	89				.25	NO			
A 805B	1		J28-B5	77				.25	YES		47	
			SHLD A805					.25	NO			
A 805E			J31-B*	89				.25	NO			
			J28-A5	77				.25	YES		47	
A 806	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 806A	1		SHLD A806					.25	NO			
			E13	179				.25	NO			
A 806L			J28-D4	77				.25	YES		47	
			J31-J	89				.25	NO			
A 806R			J28-D3	77				.25	YES		47	
			J31-K	89				.25	NO			
A 807	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 807A	1		SHLD A807					.25	NO			
			E13	179				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 166 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 807L			J28-F5	77				.25	YES		47	
			J31-H	89				.25	NO			
A 807R			J28-F4	77				.25	YES		47	
			J31-G	89				.25	NO			
A 808	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 808A	1		SHLD A808					.25	NO			
			E25	188				.25	NO			
A 808L			J32-J*	90				.25	NO			
			J28-F1	77				.25	YES		47	
A 808R			J32-I*	90				.25	NO			
			J28-D1	77				.25	YES		47	
A 809	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 809A	1		SHLD A809					.25	NO			
			E13	179				.25	NO			
A 809L			J28-F1	77				.25	YES			
			J19-S	106				.25	NO			
A 809R			J28-D1	77				.25	YES			
			J19-T	106				.25	NO			
A 810	10				3.25	3.00				A,4	57, 56, 63	
					2.25	2.00				B,7	63	
A 810A	1		SHLD A810					.25	NO			
			E25	186				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 167 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 810L			J32-M*	90				.25	NO			
			J28-F3	77				.25	YES		47	
A 810R			J32-K*	90				.25	NO			
			J28-F2	77				.25	YES		47	
A 811	10				2.25	2.00				A,4	57, 56, 63	
					3.25	3.00				B,7	63	
A 811A	1		SHLD A811					.25	NO			
			E13	179				.25	NO			
A 811L			J28-F3	77				.25	YES			
			J19-P	106				.25	NO			
A 811R			J28-F2	77				.25	YES			
			J19-R	106				.25	NO			
A 812	8											
A 812L			J17-R	109				.25	NO			
			J28-P3	77				.20	NO		46	
A 812R			J17-S	109				.25	NO			
			J28-P1	77				.20	NO		46	
A 813	1		J17-R*	109				.25	NO			
			J28-P2	77				.20	NO		46	
A 814	7				3.25	3.00				A,5	53, 52, 63	
					2.25	2.00				A,5	53, 52, 63	
A 814A	1		SHLD A814					.25	NO			
			J46	102				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 168 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 814B	1		T85-3	199				.25	YES			
			SHLD A814					.25	NO			
A 814E			J45	102				.25	YES			
			T85-4	200				.25	YES			
A 815	2		T81-6C	4				.15	NO		48	
			T83-18F	162				.25	NO		50	
A 816	2		J3-J*	85				.25	NO			
			J12-N*	113				.25	NO			
A 817	2		E31	183				.25	NO			
			J26-B7	79				.25	YES		47	
A 818	1		J12-K	113				.25	NO			
			T82-42B	66				.15	NO		49	
A 819	2		T82-18C	49				.15	NO		48	
			T82-17D	47				.15	NO		48	
A 820	1		J17-T	109				.25	NO			
			J17-U	109				.25	NO			
A 821	14											
A 821L			K14-3	164A				.25	YES		45	
			J14-T	111				.25	NO			
A 821R			K14-9	164A				.25	YES		45	
			J14-V	111				.25	NO			
A 821Y			K14-6	164A				.25	YES		45	
			J14-U	111				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 169 OF 174

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 822	10				3.25	3.00				A,5	57, 56, 63	
					3.25	3.00				B,7	63	
A 822A	1		SHLD A822					.25	NO			
			J32-Z	90				.25	NO			
A 822L			J32-Y	90				.25	NO			
			J16-Z	112				.25	NO			
A 822R			J32-X	90				.25	NO			
			J16-Y	112				.25	NO			
A 823	1		J32-Z	90				.25	NO			
			T83-17Y	115				.25	NO		50	
A 824	2		E32	91D				.25	NO			
			J5-U	92				.25	NO			
A 825	2		E33	110A				.25	NO			
			J5-V	92				.25	NO			
A 826	2		E34	91C				.25	NO			
			J5-W	92				.25	NO			
A 827	2		E35	110B				.25	NO			
			J5-X	92				.25	NO			
A 828	2		E36	91B				.25	NO			
			J5-Y	92				.25	NO			
A 829	2		E37	91A				.25	NO			
			J5-Z	92				.25	NO			
A 830	14											

SIZE	CODE IDENT NO.	
A	99974	1902255
SCALE-NONE	REV LTR G	SHEET 170 OF 174

MIL 2084 9-65

1800282

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		-			
(F)		SEE SHEET 1 & 2 FOR REVISION RECORD			

PARTIAL VIEW F-F

-KEYWAY 6 PLACES

(85) 2 REQD

(86) 8 REQD

88A

88B

VIEW A-A
SH 17 ZONE B-5

PINAI TYP

.88 .12

TYP BREAKOUT FOR TERM NO.S 1 THRU 74. END OF ACCESSORIES ARE TRUE POSITION +.25 -.12 INCH RELATIVE TO DATUM "Y".

MARKER SLEEVE LOCATED APPROXIMATELY AS SHOWN

4.25 MAX

1.38
1.12

SECTION E-E

PARTIAL VIEW B-B

1902195-011	1902195-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
NEXT ASSY	USED ON	DO NOT SCALE THIS DRAWING	ACSP PN	
APPLICATION		MATERIAL	DRAWN BY J. Ogna DATE 5 MAR 65	WIRING HARNESS A
		CONTRACT NAS 9-497	CHECKED Shayler 27 MAR 65	
			APPROVAL	CODE IDENT NO. SIZE E 1902255
			NASA APPROVAL	SCALE FULL SHEET 1 OF 17
			MIT APPROVAL	

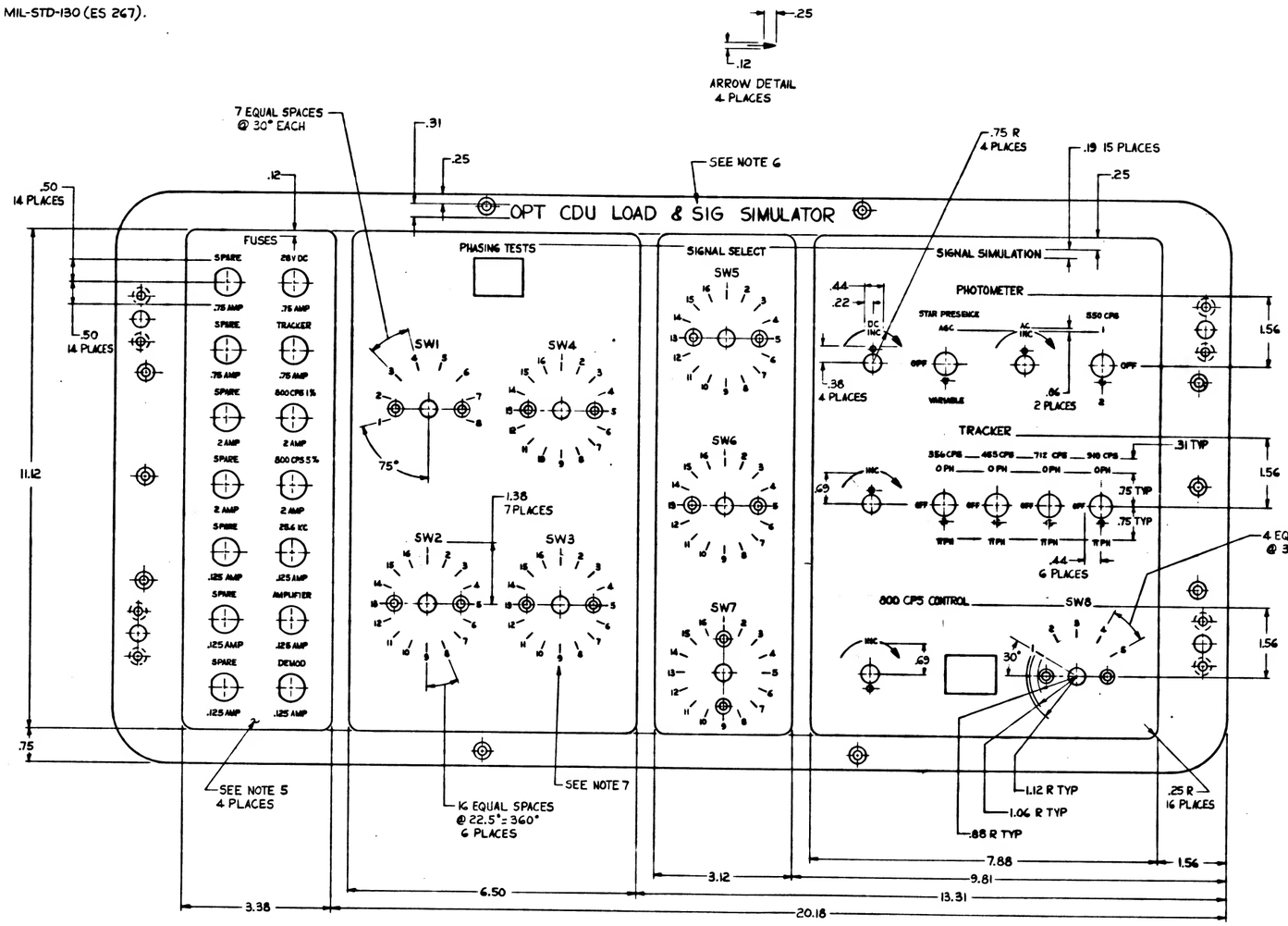
1902255 G

1800282

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP EDGES.
3. MATERIAL: QQ-A-250/11 TEMPER T-6 (ES 2106 AL ALY TYPE 6061).
4. FINISH: APPLY P513 OF MIL-F-14072 TO FRONT AND EDGES. APPLY MIL-P-8585 (ES 2589) PRIMER AND TWO COATS OF TT-E-529A CLASS B SEMI-GLOSS ENAMEL, LIGHT GRAY COLOR 26440 OF FED STD 595.
5. SILK SCREEN AREAS INDICATED PER ND1002112 USING SEMI-GLOSS ENAMEL ND1002111 (ES 2563), DARK GRAY COLOR 26251 OF FED STD 595.
6. SILK SCREEN CHARACTERS PER ND1002112 USING INSTRUMENT BLACK COLOR 514 OF ANA 157, FUTURA DEMIBOLD PER ND1002122. CENTRALIZE AS SHOWN.
7. SILK SCREEN CHARACTERS, LINES AND MARKS PER ND 1002112 USING SEMI-GLOSS ENAMEL PER ND 1002111 (ES 2563) COLOR INSIGNIA WHITE, NUMBER 27886 OF FED-STD-595. CHARACTER STYLE FUTURA DEMI-BOLD PER ND1002112. CHARACTERS TO BE .12 HIGH UNLESS OTHERWISE SPECIFIED. LINES TO BE .031 WIDE, MARKS TO BE AS DIMENSIONED. CENTRALIZE AS SHOWN.
8. MARK CHARACTERS ON BACK PER ND 1002019, COLOR BLACK, .12 HIGH. CENTRALIZE AS SHOWN.
9. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES 267).

REVISIONS 17843					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		UPGRADED TO CLASS A PER TDRR 17843		19 MAR 65	HTO



SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

902223-011	902223-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS ± — DECIMALS ± .005 ANGLES ± 1°
— ± .02 — 1°
DO NOT SCALE THIS DRAWING
MATERIAL: SEE NOTE 3
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 13 JAN 65
CHECKED 4 FEB 65
APPROVAL 4 FEB 65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL - LOAD AND SIGNAL SIMULATOR

CODE IDENT NO: E
SIZE: E
1902256
SCALE FULL
SHEET 1 OF 2

3 TO 1 T2R2
1902256

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
1		UPGRADED TO CLASS A PER TDRE 17843		15 MAR 65	

.562
25.125
24.000
22.06
20.56
15.42
10.82
7.50
5.88
4.68
4.12
3.50
2.34
1.100
1.120
2 PLACES
.140 THRU
3 HOLES
.406 THRU
3 HOLES
.75
10 PLACES
.312
3 PLACES
.860
.880
2 PLACES
.50
1.25 R 4 PLACES
.28
XDS1
.201
.209
100°CSK TO
.375 DIA
8 HOLES
12.719
12.750
.375 THRU
4 HOLES
S10
S9
S8
R79
R78
R80
S14
S13
S12
S11
S5
S6
S7
S4
S1
S2
S3
B
C
6.75
3.62
.38 THRU
.25
2.375
2 PLACES
.68
L32
XDS2
.615
.28
RH
1.68
3.46
7.18
5.53
8.06
L68
6 PLACES
1.18
.688
1.375
2.82
4.68
7.750 2 PLACES
14.50
16.250 2 PLACES
17.50
23.750
.125
.145
.152
100°CSK TO .285 DIA
FAR SIDE 2 HOLES
.312
.406 THRU
.140 THRU
.201
.209
100°CSK TO .385 DIA
FAR SIDE 10 HOLES
XF1
XF2
XF3
XF4
XF5
XF6
XF7
10.062
8.000
2 PLACES
7.000
2 PLACES
6.82
8.32
6.312
2 PLACES
5.32
7.500
2 PLACES
4.000
2 PLACES
3.82
2.32
1.688
2 PLACES
.82
1.000 2 PLACES
.500 2 PLACES
.68
2.062
.630
14 PLACES
.590
14 PLACES
IDENTIFICATION MARK
.19

CLUSTER "A"
6 REQD

.40
.40
.62
.375
.62
.140 .060 DEEP
.50 THRU

CLUSTER "B"
6 REQD

.38 THRU
.171
.178
THRU
100° CSK TO .340 DIA
FAR SIDE 2 HOLES
.750
1.500

CLUSTER "C"

.171
.178
THRU
100° CSK TO .340 DIA
FAR SIDE 2 HOLES
1.500
.750
.38 THRU

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± .005 DECIMALS ± .02 ANGLES ± 1°	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
DO NOT SCALE THIS DRAWING	ACSP PN	
MATERIAL	DRAWN R Edwards 31 JAN 65	PANEL - LOAD AND SIGNAL SIMULATOR
CONTRACT NAS9-497	CHECKED Edwards 4 FEB 65	
	APPROVAL [illegible] 5 FEB 65	
	APPROVAL L Gehman 2/10/65	
	NASA APPROVAL [illegible]	CODE IDENT NO. E SIZE 1902256
	MIT APPROVAL [illegible]	SCALE FULL SHEET 2 OF 2

1902256

APPLICATION		REVISIONS 17843			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902023-011	1902023-011	B	UPGRADED TO CLASS A PER TDR 17843	9 MAR 65	JHP

Checked 15 Feb 65

| REV | B | B | B

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND 1002206
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND 1002019.
5	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND 1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
6	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
7	SPIRALLING OF THE MARKING IS ALLOWED.
8	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND 1002019.
9	MARK SLEEVING OF MULTI-LEAD WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
10	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
11	LACE HARNESS USING ITEM 27.
12	FASTEN MARKER SECURELY WITH ITEM 27 . WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
13	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
14	LENGTHS SPECIFIED ARE FOR LEADS BEFORE ATTACHING TO AN ACCESSORY.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
16	GRID MODULE IS 1 INCH BASIC.
17	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
18	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
19	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD L - WHITE WITH LETTER L R - WHITE WITH LETTER R W - WHITE WITH LETTER W
20	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 28 AND 29, OR 30.
21	IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267)
22	DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLFRANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE NUMBER — LIST OF MATERIALS

ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902258-001	WIRE, PER ND1002181, TYPE 1, CLASS 1, 24AWG, WHITE.
2	1	1902258-002	WIRE PER ND1002181, TYPE 2, CLASS 4, 24AWG, WHITE.
3	1	1902258-003	WIRE PER ND1002181, TYPE 1, CLASS 4, WHITE.
4	1	MS3127E-24-61S	(1897056-610) CONNECTOR
5	1	MS3127E-24-61SW	(1897056-611) CONNECTOR
6	1	MS3127E-24-61SX	(1897056-612) CONNECTOR
7	1	MS3127E-24-61SY	(1897056-613) CONNECTOR
8	8	1015818-660	CONNECTOR
9	272	1015818-424	SOCKETS
10	1	1016128-001	BAND, IDENTIFICATION BLANK
11	10	1000243-003	FERRULE ELEC. COND (INNER)
12	15	1000243-006	FERRULE ELEC. COND (INNER)
13	10	1000242-002	FERRULE ELEC COND (OUTER)
14	15	1000242-005	FERRULE ELEC COND (OUTER)
15	50	1010490-198	INSULATION-SLEEVING, HEAT SHRINK
16	5	1010490-200	INSULATION-SLEEVING, HEAT SHRINK
17	4	1010490-258	INSULATION-SLEEVING, HEAT SHRINK

SEE NOTE	ITEM	QTY	PART NO.	DESCRIPTION
NUMBER				
18	18	2	1010490-218	INSULATION-SLEEVING, HEAT SHRINK
18	19	4	1010490-222	INSULATION-SLEEVING, HEAT SHRINK
18	20	2	1010490-224	INSULATION-SLEEVING, HEAT SHRINK
18	21	1	1015902- 45	TERMINAL LUG
18	22	4	1016006-002	SPLICE REDUCER
18	23	5	1016006-001	SPLICE REDUCER
18	24	1	1016379-107	CONNECTOR
18	25	1	1016379-105	CONNECTOR
18	26	2	1016379-103	CONNECTOR
	27	AR	1012507-004	TAPE LACING AND TYING
	28	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	29	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	30	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
18	31	83	1015864-106	INSULATION-SLEEVING, ELECTRICAL

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	J1-PP CR27-2					.20 .30	NO YES			
A	2	1	J1-NN E1					.20 .30	NO NO		21	
A	3	1	E1 P3-41					.30 .20	NO NO		9	
A	4	2			1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A	4A	1	SHLD A4 E6					.25 .30	NO NO			
A	4L		J1-MM TB6-38					.20 .30	NO YES			
A	4R		J1-LL TB6-26					.20 .30	NO YES			
A	5	1	J1-KK P2-50					.20 .20	NO NO		9	
A	6	1	J1-JJ P2-4					.20 .20	NO NO		9	
A	7	1	J1-HH P2-56					.20 .20	NO NO		9	
A	8	1	J1-GG P2-3					.20 .20	NO NO		9	
A	9	2			1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	9A	1	SHLD A9 E6					.25 .30	NO NO			
A	9L		J1-FF TB6-40					.20 .30	NO YES			
A	9R		J1-EE TB6-28					.20 .30	NO YES			
A	10	1	J1-DD P2-62					.20 .20	NO NO		9	
A	11	1	J1-CC P2-9					.20 .20	NO NO		9	
A	12	1	J1-BB P2-61					.20 .20	NO NO		9	
A	13	1	J1-AA P2-15					.20 .20	NO NO		9	
A	14	1	J1-Z• P2-8					.20 .20	NO NO		9	
A	15	1	J1-Y• P2-21					.20 .20	NO NO		9	
A	16	1	J1-X• P2-2					.20 .20	NO NO		9	
A	17	1	J1-W• P2-27					.20 .20	NO NO		9	
A	18	1	J1-V• P2-1					.20 .20	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	19	1	J1-U• P2-46					.20 .20	NO NO		9	
A	20	1	J1-T• P2-7					.20 .20	NO NO		9	
A	21	1	J1-S• P2-51					.20 .20	NO NO		9	
A	22	1	J1-R• P2-13					.20 .20	NO NO		9	
A	23	1	J1-Q• P2-45					.20 .20	NO NO		9	
A	24	1	J1-P• P2-19					.20 .20	NO NO		9	
A	25	1	J1-N• P2-39					.20 .20	NO NO		9	
A	26	1	J1-J• P2-25					.20 .20	NO NO		9	
A	27	1	J1-I• P2-33					.20 .20	NO NO		9	
A	28	2			1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A	28A	1	SHLD A28 E6					.25 .30	NO NO			
A	28L		J1-M• S9-6					.20 .30	NO YES			

WIRING HARNESS A — 1902258 — B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28R			J1-K• S9-3					.20 .30	NO YES			
A 29	1		J1-H• P2-31					.20 .20	NO NO		9	
A 30	1		J1-G• P2-32					.20 .20	NO NO		9	
A 31	2				1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A 31A	1		SHLD A31 E6					.25 .30	NO NO			
A 31L			J1-E• TB6-45					.20 .30	NO YES			
A 31R			J1-F• TB6-42					.20 .30	NO YES			
A 32	1		J1-D• P6-6					.20 .20	NO NO		9	
A 33	1		J1-C• P6-66					.20 .20	NO NO		9	
A 34	2				1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A 34A	1		SHLD A34 E6					.25 .30	NO NO			
A 34L			J1-A• TB6-45					.20 .30	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR B | SHEET 10 OF 49

MIL 2084 4-63

WIRING HARNESS A — 1902258 — B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34R			J1-B• TB6-44					.20 .30	NO YES			
A 35	1		J1-Z P6-35					.20 .20	NO NO		9	
A 36	1		J1-Y P6-48					.20 .20	NO NO		9	
A 37	1		J1-X P6-18					.20 .20	NO NO		9	
A 38	1		J1-W P6-54					.20 .20	NO NO		9	
A 39	1		J1-V P6-12					.20 .20	NO NO		9	
A 40	1		J1-U P6-60					.20 .20	NO NO		9	
A 41	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 41A	1		SHLD A41 E6					.25 .30	NO NO			
A 41L			J1-T S9-5					.20 .30	NO YES			
A 41R			J1-S S9-2					.20 .30	NO YES			
A 42	1		J1-R E7					.20 .30	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR B | SHEET 11 OF 49

MIL 2084 4-63

WIRING HARNESS A — 1902258 — B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 43	1		J1-P E6					.20 .30	NO NO			
A 44	1		J1-N XF2-1					.20 .30	NO YES			
A 45	1		J1-M P3-54					.20 .20	NO NO		9	
A 46	1		J1-L P2-55					.20 .20	NO NO		9	
A 47	1		J1-K P2-14					.20 .20	NO NO		9	
A 48	1		J1-J P2-49					.20 .20	NO NO		9	
A 49	1		J1-H P2-20					.20 .20	NO NO		9	
A 50	1		J2-PP P3-60					.20 .20	NO NO		9	
A 51	1		J2-NN P3-59					.20 .20	NO NO		9	
A 52	1		J2-MM P3-34					.20 .20	NO NO		9	
A 53	1		J2-LL P3-58					.20 .20	NO NO		9	
A 54	1		J2-KK TB3-74					.20 .30	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR B | SHEET 12 OF 49

MIL 2084 4-63

WIRING HARNESS A — 1902258 — B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55	1		J2-JJ TB3-75					.20 .30	NO YES			
A 56	1		J2-HH TB3-76					.20 .30	NO YES			
A 57	1		J2-GG TB2-47					.20 .30	NO YES			
A 58	1		J2-FF E2					.20 .30	NO NO			
A 59	1		J2-EE T16-3					.20 .30	NO YES		31	
A 60	1		J2-DD T16-1					.20 .30	NO YES		31	
A 61	1		J2-CC T15-2					.20 .30	NO YES		31	
A 62	1		J2-BB T15-3					.20 .30	NO YES		31	
A 63	1		J2-AA T15-1					.20 .30	NO YES		31	
A 64	1		J2-Z• T14-2					.20 .30	NO YES		31	
A 65	1		J2-Y• T14-3					.20 .30	NO YES		31	
A 66	1		J2-X• T14-1					.20 .30	NO YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR B | SHEET 13 OF 49

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67	1		J2-W• T13-2					.20 .30	NO YES		31	
A 68	1		J2-V• T13-3					.20 .30	NO YES		31	
A 69	1		J2-U• T13-1					.20 .30	NO YES		31	
A 70	1		J2-T• T12-2					.20 .30	NO YES		31	
A 71	1		J2-S• T12-3					.20 .30	NO YES		31	
A 72	1		J2-R• T12-1					.20 .30	NO YES		31	
A 73	1		J2-Q• T11-2					.20 .30	NO YES		31	
A 74	1		J2-P• T11-3					.20 .30	NO YES		31	
A 75	1		J2-N• T11-1					.20 .30	NO YES		31	
A 76	1		J2-M• L4-2					.20 .30	NO YES		31	
A 77	1		J2-K• L4-1					.20 .30	NO YES		31	
A 78	1		J2-J• L3-1					.20 .30	NO YES		31	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79	3				1.25 1.00	1.00 .75				4	A 15, 11, 13 A 15	
A 79A	1		SHLD A79 E7					.25 .30	NO NO			
A 79W			J2-I• P8-18					.20 .20	NO NO		9	
A 80	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 80A	1		SHLD A80 E7					.25 .30	NO NO			
A 80L			J2-H• P8-12					.20 .20	NO NO		9	
A 80R			J2-G• P8-48					.20 .20	NO NO		9	
A 81	3				1.25 1.00	1.00 .75				4	A 15, 11, 13 A 15	
A 81A	1		SHLD A81 E7					.25 .30	NO NO			
A 81W			J2-F• P8-24					.20 .20	NO NO		9	
A 82	2				1.25 1.00	1.00 .75				4	A 15, 12, 14 A 15	
A 82A	1		SHLD A82 E7					.25 .30	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 82L			J2-E• P8-30					.20 .20	NO NO		9	
A 82R			J2-D• P8-54					.20 .20	NO NO		9	
A 83	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 83A	1		SHLD A83 E7					.25 .30	NO NO			
A 83L			J2-B• P8-5					.20 .20	NO NO		9	
A 83R			J2-C• P8-66					.20 .20	NO NO		9	
A 84	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 84A	1		SHLD A84 E7					.25 .30	NO NO			
A 84L			J2-Z P8-6					.20 .20	NO NO		9	
A 84R			J2-A• P8-60					.20 .20	NO NO		9	
A 85	1		J2-Y T83-73					.20 .30	NO YES			
A 86	1		J3-PP P3-53					.20 .20	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 87	1		J3-NN TB3-71					.20 .30	NO YES			
A 88	1		J3-MM P4-41					.20 .20	NO NO		9	
A 89	1		J3-LL P4-20					.20 .20	NO NO		9	
A 90	1		J3-KK P4-42					.20 .20	NO NO		9	
A 91	1		J3-JJ P4-21					.20 .20	NO NO		9	
A 92	1		J3-GG P4-22					.20 .20	NO NO		9	
A 93	1		J3-HH P4-36					.20 .20	NO NO		9	
A 94	1		J3-FF P4-35					.20 .20	NO NO		9	
A 95	1		J3-EE P4-23					.20 .20	NO NO		9	
A 96	1		J3-DD P4-34					.20 .20	NO NO		9	
A 97	1		J3-CC P4-24					.20 .20	NO NO		9	
A 98	1		J3-BB P2-43					.20 .20	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	1		J4-E					.20	NO			
			P5-4					.20	NO		9	
A 196	1		J4-D					.20	NO			
			P5-63					.20	NO		9	
A 197	1		J4-C					.20	NO			
			P5-5					.20	NO		9	
A 198	1		J4-B					.20	NO			
			P5-62					.20	NO		9	
A 199	1		L4-1					.30	YES			
			L3-2					.30	YES		31	
A 200	1		L3-1					.30	YES			
			P4-15					.20	NO		9	
A 201	1		L3-2					.30	YES			
			P3-52					.20	NO		9	
A 202	1		L3-2					.30	YES			
			P4-39					.20	NO		9	
A 203	1		L4-2					.30	YES			
			P4-16					.20	NO		9	
A 204			DELETED									
A 205	1		T11-1					.30	YES			
			P4-48					.20	NO		9	
A 206			DELETED									

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SCALE - NONE | REV LTR B | SHEET 26 OF 49

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		T11-3					.30	YES			
			P4-17					.20	NO		9	
A 208			DELETED									
A 209	1		T12-1					.30	YES			
			P4-47					.20	NO		9	
A 210			DELETED									
A 211	1		T12-3					.30	YES			
			P4-18					.20	NO		9	
A 212	1		T12-4					.30	YES		31	
			L8-1					.30	YES		31	
A 213	1		T12-5					.30	YES		31	
			T85-8					.30	YES			
A 214	1		L8-2					.30	YES		31	
			T85-2					.30	YES			
A 215	1		T11-4					.30	YES		31	
			L7-1					.30	YES		31	
A 216	1		T11-5					.30	YES		31	
			T85-7					.30	YES			
A 217	1		L7-2					.30	YES		31	
			T85-1					.30	YES			
A 218	1		T13-1					.30	YES			
			P4-27					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258
SCALE - NONE | REV LTR B | SHEET 27 OF 49

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 219	1		T13-3					.30	YES			
			P4-51					.20	NO		9	
A 220	1		T13-4					.30	YES		31	
			L9-1					.30	YES		31	
A 221	1		T13-5					.30	YES		31	
			T85-10					.30	YES			
A 222	1		L9-2					.30	YES		31	
			T85-9					.30	YES			
A 223	1		T14-1					.30	YES			
			P4-28					.20	NO		9	
A 224	1		T14-3					.30	YES			
			P4-52					.20	NO		9	
A 225	1		T14-4					.30	YES		31	
			L10-1					.30	YES		31	
A 226	1		T14-5					.30	YES		31	
			T85-12					.30	YES			
A 227	1		L10-2					.30	YES		31	
			T85-11					.30	YES			
A 228	1		T15-1					.30	YES			
			P4-29					.20	NO		9	
A 229	1		T15-3					.30	YES			
			P4-53					.20	NO		9	
A 230	1		T15-4					.30	YES		31	
			L11-1					.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258
SCALE - NONE | REV LTR B | SHEET 28 OF 49

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 231	1		T15-5					.30	YES		31	
			T85-14					.30	YES			
A 232	1		L11-2					.30	YES		31	
			T85-13					.30	YES			
A 233	1		T16-1					.30	YES			
			P4-30					.20	NO		9	
A 234	1		T16-2					.30	YES		31	
			E2					.30	NO			
A 235	1		E2					.30	NO			
			P4-8					.20	NO		9	
A 236	1		E2					.30	NO			
			P3-4					.20	NO		9	
A 237	1		E2					.30	NO			
			P1-28					.20	NO		9	
A 238	1		E2					.30	NO		22, 17	
			XDS2-G					.30	YES			
A 239	1		T16-3					.30	YES			
			P4-54					.20	NO		9	
A 240	1		T16-4					.30	YES		31	
			L12-1					.30	YES		31	
A 241	1		T16-5					.30	YES		31	
			T85-16					.30	YES			
A 242	1		L12-2					.30	YES		31	
			T85-15					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258
SCALE - NONE | REV LTR B | SHEET 29 OF 49

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 243	1		T83-74					.30	YES			
			P4-40					.20	NO		9	
A 244	1		T83-75					.30	YES			
			P4-14					.20	NO		9	
A 245	1		P4-61					.20	NO		9	
			T84-12					.30	YES			
A 246	1		T84-12					.30	YES			
			P7-48					.20	NO		9	
A 247	1		P4-45					.20	NO		9	
			P1-17					.20	NO		9	
A 248	1		P4-46					.20	NO		9	
			P1-53					.20	NO		9	
A 249	1		P4-7					.20	NO		9	
			P1-18					.20	NO		9	
A 250	1		P4-13					.20	NO		9	
			P1-54					.20	NO		9	
A 251	1		P4-59					.20	NO		9	
			T17-3					.30	YES		31	
A 252	1		T17-3					.30	YES			
			S15SW1-NC					.30	YES			
A 253	1		S15SW2-NO					.30	YES			
			P1-24					.20	NO		9	
A 254	1		P4-60					.20	NO		9	
			T17-4					.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 30 OF 49

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 255	1		T17-4					.30	YES			
			S15SW2-NC					.30	YES			
A 256	1		S15SW1-NO					.30	YES			
			P1-48					.20	NO		9	
A 257	1		XF1-1					.30	YES			
			J26					.30	YES			
A 258	1		E2					.30	YES			
			J27					.30	YES			
A 259	1		P3-28					.20	NO		9	
			P1-35					.20	NO		9	
A 260	1		E3					.30	NO			
			P7-64					.20	NO		9	
A 261	1		E3					.30	NO			
			P1-16					.20	NO		9	
A 262	1		E3					.30	NO		23, 16	
			P3-22					.20	NO		9	
A 263	1		XF2-2					.30	YES			
			P3-46					.20	NO		9	
A 264	1		XF2-2					.30	YES			
			Y1-3					.30	YES		31	
A 265	1		Y1-3					.30	YES			
			Y2-3					.30	YES		31	
A 266	1		Y2-3					.30	YES			
			Y3-3					.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 31 OF 49

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 267	1		Y3-3					.30	YES			
			R77-1					.30	YES			
A 268	1		R77-1					.30	YES			
			TB6-34					.30	YES			
A 269	1		XF1-2					.30	YES			
			TB3-42					.30	YES			
A 270			DELETED									
A 271			DELETED									
A 272	1		XF1-2					.30	YES			
			P3-64					.20	NO		9	
A 273	1		TB3-42					.30	YES			
			R78-1					.30	YES			
A 274	1		S15SW3-C					.30	YES			
			R78-1					.30	YES			
A 275	1		XF3-2					.30	YES			
			P2-6					.20	NO		9	
A 276	1		XF3-2					.30	YES			
			L5-1					.30	YES		31	
A 277	1		L5-1					.30	YES			
			T17-1					.30	YES		31	
A 278	1		T17-1					.30	YES			
			TB1-41					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 32 OF 49

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 279	1		L5-2					.30	YES		31	
			R75-1					.30	YES			
A 280	1		TB1-42					.30	YES			
			T17-2					.30	YES		31	
A 281	1		T17-2					.30	YES			
			R75-2					.30	YES			
A 282	1		R75-2					.30	YES			
			P2-29					.20	NO		9	
A 283	1		P2-23					.20	NO		9	
			P1-5					.20	NO		9	
A 284	1		P2-30					.20	NO		9	
			P1-6					.20	NO		9	
A 285	1		P2-34					.20	NO		9	
			P1-65					.20	NO		9	
A 286	1		P2-40					.20	NO		9	
			P1-66					.20	NO		9	
A 287	1		P2-38					.20	NO		9	
			P1-23					.20	NO		9	
A 288	1		P2-44					.20	NO		9	
			P1-47					.20	NO		9	
A 289	1		XF4-2					.30	YES			
			P2-53					.20	NO		9	
A 290	1		XF4-2					.30	YES			
			L6-1					.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR B	SHEET 33 OF 49

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 291	1		L6-1					.30	YES			
			T18-1					.30	YES		31	
A 292	1		T18-1					.30	YES			
			TB1-50					.30	YES			
A 293	1		L6-2					.30	YES		31	
			R76-1					.30	YES			
A 294	1		TB1-51					.30	YES			
			T18-2					.30	YES		31	
A 295	1		T18-2					.30	YES			
			R76-2					.30	YES			
A 296	1		R76-2					.30	YES			
			P2-57					.20	NO		9	
A 297	1		P1-4					.20	NO		9	
			TB3-34					.30	YES			
A 298	1		P1-22					.20	NO		9	
			TB3-36					.30	YES			
A 299	1		P1-29					.20	NO		9	
			TB2-35					.30	YES			
A 300	1		TB2-35					.30	YES			
			TB3-32					.30	YES			
A 301	1		TB3-32					.30	YES			
			XDS1-G					.30	YES			
A 302	1		XDS1-G					.30	YES			
			P7-23					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR ≠B	SHEET 34 OF 49

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 303	1		P1-36					.20	NO		9	
			XF6-1					.30	YES			
A 304	1		P1-41					.20	NO		9	
			TB2-33					.30	YES			
A 305	1		TB2-33					.30	YES			
			TB3-31					.30	YES			
A 306	1		TB3-31					.30	YES			
			J23					.30	YES			
A 307	1		XF6-2					.30	YES			
			TB3-30					.30	YES			
A 308	1		TB3-30					.30	YES			
			TB2-34					.30	YES			
A 309	1		TB2-34					.30	YES			
			J22					.30	YES			
A 310	1		P1-30					.20	NO		9	
			XF7-1					.30	YES			
A 311	1		XF7-2					.30	YES			
			TB3-33					.30	YES			
A 312	1		TB3-33					.30	YES			
			TB2-36					.30	YES			
A 313	1		TB2-36					.30	YES			
			J24					.30	YES			
A 314	1		P1-42					.20	NO		9	
			TB3-35					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR ≠B	SHEET 35 OF 49

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 315	1		TB3-35					.30	YES			
			TB2-37					.30	YES			
A 316	1		TB2-37					.30	YES			
			J25					.30	YES			
A 317	1		TB3-41					.30	YES			
			TB2-50					.30	YES			
A 318	1		TB2-43					.30	YES			
			XDS1-D					.30	YES			
A 319	1		TB3-40					.30	YES			
			XDS1-A					.30	YES			
A 320	1		TB3-77					.30	YES			
			TB2-46					.30	YES			
A 321	3				1.00	.75					A 15	
					1.25	1.00				4	A 15, 11, 13	
A 321B	1		E8					.30	NO			
			SHLD A321					.25	NO			
A 321W			TB2-44					.30	YES			
			XF5-2					.30	YES			
A 322	3				1.00	.75					A 15	
					1.25	1.00				4	A 15, 11, 13	
A 322B	1		E9					.30	NO			
			SHLD A322					.25	NO			
A 322W			TB2-45					.30	YES			
			TB1-45					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR ≠B	SHEET 36 OF 49

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 323	2				1.25	1.00				4	A , 12, 14	
					1.00	.75					A 15	
A 323A	1		SHLD A323					.25	NO			
			E9					.30	NO			
A 323L			TB1-44					.30	YES			
			P8-42					.20	NO		9	
A 323R			TB1-45					.30	YES			
			P8-17					.20	NO		9	
A 324	2				1.25	1.00				4	A 15, 12, 14	
					1.00	.75					A 15	
A 324A	1		SHLD A324					.25	NO			
			E9					.30	NO			
A 324L			TB1-44					.30	YES			
			P7-36					.20	NO		9	
A 324R			TB1-54					.30	YES			
			P7-40					.20	NO		9	
A 325	2				1.00	.75					A 15	
					1.25	1.00				4	A 15, 12, 14	
A 325B	1		E8					.30	NO			
			SHLD A325					.25	NO			
A 325L			P8-36					.20	NO		9	
			XF5-1					.30	YES			
A 325R			P8-65					.20	NO		9	
			XF5-2					.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE-NONE	REV LTR ≠B	SHEET 37 OF 49

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326	2				1.25	1.00				4	A 15, 12, 14	
					1.25	1.00					A 15	
A 326A	1		SHLD A326					.25	NO			
			E9					.30	NO			
A 326L			TB1-49					.30	YES			
			P8-59					.20	NO		9	
A 326R			TB1-47					.30	YES			
			P8-11					.20	NO		9	
A 327	2				1.25	1.00				4	A 15, 12, 14	
					1.25	1.00					A 15	
A 327A	1		SHLD A327					.25	NO			
			E9					.30	NO			
A 327L			TB1-49					.30	YES			
			J19					.30	YES			
A 327R			TB1-47					.30	YES			
			J20					.30	YES			
A 328	3				1.25	1.00				4	A 15, 11, 13	
					1.00	.75					A 15	
A 328A	1		SHLD A328					.25	NO			
			E9					.30	NO			
A 328W			TB1-58					.30	YES			
			J21					.30	YES			
A 329	3				1.25	1.00				4	A 15, 11, 13	
					1.00	.75					A 15	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329A	1		SHLD A329					.25	NO			
			E9					.30	NO			
A 329W			TB1-58					.30	YES			
			P8-53					.20	NO		9	
A 330	1		CR27-2					.30	YES			
			CR26-2					.30	YES			
A 331	1		CR26-2					.30	YES			
			T18-4					.30	YES		31	
A 332	1		T18-4					.30	YES			
			Y3-2					.30	YES		31	
A 333	1		Y3-2					.30	YES			
			Y2-2					.30	YES		31	
A 334	1		Y2-2					.30	YES			
			Y1-2					.30	YES		31	
A 335	1		TB6-33					.30	YES			
			FL1-C					.30	YES		31	
A 336	1		TB6-32					.30	YES			
			FL2-C					.30	YES		31	
A 337	1		TB6-31					.30	YES			
			FL3-C					.30	YES		31	
A 338	1		TB6-30					.30	YES			
			FL4-C					.30	YES		31	
A 339	1		Y1-2					.30	YES			
			J14-H*					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 340	1		J15-H*					.30	YES			
			TB4-3					.30	YES			
A 341	1		TB4-3					.30	YES			
			R80-3					.30	YES			
A 342	1		R80-3					.30	YES			
			R78-3					.30	YES			
A 343	1		R78-3					.30	YES			
			S9-4					.30	YES			
A 344	1		S9-4					.30	YES			
			TB6-35					.30	YES			
A 345	1		TB6-28					.30	YES			
			P3-42					.20	NO		9	
A 346	1		TB6-29					.30	YES			
			P7-66					.20	NO		9	
A 347	1		J14-L					.30	YES			
			J15-L					.30	YES			
A 348	1		TB4-11					.30	YES			
			P1-10					.20	NO		9	
A 349	1		T18-3					.30	YES		31	
			TB4-4					.30	YES			
A 350	1		T18-5					.30	YES		31	
			TB4-5					.30	YES			
A 351	1		TB4-2					.30	YES			
			CR26-1					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 352	1		TB4-1					.30	YES			
			J13-J*					.30	YES			
A 353	1		J14-J*					.3.	YES			
			J15-J*					.30	YES			
A 354	1		R77-2					.30	YES			
			CR27-1					.30	YES			
A 355	1		R77-2					.30	YES			
			J13-K*					.30	YES			
A 356	1		J14-K*					.30	YES			
			J15-K*					.30	YES			
A 357	1		S15SW1-C					.30	YES			
			R81-1					.30	YES			
A 358	1		S15SW2-C					.30	YES			
			R81-3					.30	YES			
A 359	1		R81-3					.30	YES			
			P7-11					.20	NO		9	
A 360	1		R81-2					.30	YES			
			P7-65					.20	NO		9	
A 361	1		P5-40					.20	NO		9	
			P7-63					.20	NO		9	
A 362	1		P5-41					.20	NO		9	
			P7-3					.20	NO		9	
A 363	1		P6-40					.20	NO		9	
			P7-32					.20	NO		9	

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND 1002206
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER NC 1002019.
5	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND 1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
6	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
7	SPIRALLING OF THE MARKING IS ALLOWED.
8	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND 1002019.
9	MARK SLEEVING OF MULTI-LEAD WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
10	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
11	LACE HARNESS USING ITEM 27.
12	FASTEN MARKER SECURELY WITH ITEM 27 . WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
13	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
14	LENGTHS SPECIFIED ARE FOR LEADS BEFORE ATTACHING TO AN ACCESSORY.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
16	GRID MODULE IS 1 INCH BASIC.
17	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
18	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
19	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD WHITE WITH LETTER L, OR BLUE, OR WHITE WITH BLUE TRACER. WHITE WITH LETTER R, OR RED, OR WHITE WITH RED TRACER. WHITE WITH LETTER W, OR WHITE.
20	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 28 AND 29, OR 30.
21	IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267)
22	DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902258-001	WIRE, PER ND1002181, TYPE 1, CLASS 1, 24AWG, WHITE.
	2	1	1902258-002	WIRE PER ND1002181, TYPE 2, CLASS 4, 24AWG, WHITE.
	3	1	1902258-003	WIRE PER ND1002181, TYPE 1, CLASS 4, WHITE.
	4	1	MS3127E-24-61S	(1897056-610) CONNECTOR
	5	1	MS3127E-24-61SW	(1897056-611) CONNECTOR
	6	1	MS3127E-24-61SX	(1897056-612) CONNECTOR
	7	1	MS3127E-24-61SY	(1897056-613) CONNECTOR
18	8	8	1015818-660	CONNECTOR
18	9	273	1015818-424	SOCKETS
18	10	1	1016128-001	BAND, IDENTIFICATION BLANK
	11	10	1000243-003	FERRULE ELEC. COND (INNER)
	12	15	1000243-006	FERRULE ELEC. COND (INNER)
	13	10	1000242-002	FERRULE ELEC COND (OUTER)
	14	15	1000242-005	FERRULE ELEC COND (OUTER)
18	15	50	1010490-198	INSULATION-SLEEVING, HEAT SHRINK
18	16	5	1010490-200	INSULATION-SLEEVING, HEAT SHRINK
18	17	4	1010490-258	INSULATION-SLEEVING, HEAT SHRINK

WIRING HARNESS A — 1902258 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 99	1		J3-AA					.20	NO			
			P2-26					.20	NO		9	
A 100	1		J3-Z*					.20	NO			
			T81-42					.30	YES			
A 101	1		J3-Y*					.20	NO			
			XF3-1					.30	YES			
A 102	1		J3-X*					.20	NO			
			P2-36					.20	NO		9	
A 103	1		J3-W*					.20	NO			
			P2-5					.20	NO		9	
A 104	1		J3-V*					.20	NO			
			P2-22					.20	NO		9	
A 105	1		J3-U*					.20	NO			
			P2-12					.20	NO		9	
A 106	1		J3-T*					.20	NO			
			P2-35					.20	NO		9	
A 107	1		J3-S*					.20	NO			
			P2-11					.20	NO		9	
A 108	1		J3-R*					.20	NO			
			P2-41					.20	NO		9	
A 109	1		J3-Q*					.20	NO			
			P2-42					.20	NO		9	
A 110	1		J3-P*					.20	NO			
			P2-66					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR C | SHEET 18 OF 50

WIRING HARNESS A — 1902258 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 111	1		J3-N*					.20	NO			
			P2-47					.20	NO		9	
A 112	1		J3-M*					.20	NO			
			P2-65					.20	NO		9	
A 113	1		J3-K*					.20	NO			
			P2-64					.20	NO		9	
A 114	1		J3-J*					.20	NO			
			P2-60					.20	NO		9	
A 115	1		J3-I*					.20	NO			
			P2-63					.20	NO		9	
A 116	1		J3-H*					.20	NO			
			P2-59					.20	NO		9	
A 117	1		J3-G*					.20	NO			
			P2-58					.20	NO		9	
A 118	1		J3-F*					.20	NO			
			P2-54					.20	NO		9	
A 119	1		J3-E*					.20	NO			
			T81-51					.30	YES			
A 120	1		J3-D*					.20	NO			
			XF4-1					.30	YES			
A 121	1		J3-C*					.20	NO			
			P2-52					.20	NO		9	
A 122	1		J3-B*					.20	NO			
			P2-48					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR C | SHEET 19 OF 50

WIRING HARNESS A — 1902258 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 123	1		J3-A*					.20	NO			
			P2-28					.20	NO		9	
A 124	1		J3-Z					.20	NO			
			P2-24					.20	NO		9	
A 125	1		J3-Y					.20	NO			
			P2-16					.20	NO		9	
A 126	1		J3-X					.20	NO			
			P2-17					.20	NO		9	
A 127	1		J3-W					.20	NO			
			P2-10					.20	NO		9	
A 128	1		J3-V					.20	NO			
			P2-18					.20	NO		9	
A 129	1		J3-U					.20	NO			
			P5-24					.20	NO		9	
A 130	1		J3-T					.20	NO			
			P5-34					.20	NO		9	
A 131	1		J3-S					.20	NO			
			P5-35					.20	NO		9	
A 132	1		J3-R					.20	NO			
			P5-48					.20	NO		9	
A 133	1		J3-P					.20	NO			
			P5-18					.20	NO		9	
A 134	1		J3-N					.20	NO			
			P5-54					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR C | SHEET 20 OF 50

WIRING HARNESS A — 1902258 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135	1		J3-M					.20	NO			
			P5-12					.20	NO		9	
A 136	1		J3-L					.20	NO			
			P5-60					.20	NO		9	
A 137	1		J3-K					.20	NO			
			P5-6					.20	NO		9	
A 138	1		J3-J					.20	NO			
			P5-66					.20	NO		9	
A 139	1		J4-PP					.20	NO			
			P6-16					.20	NO		9	
A 140	1		J4-NN					.20	NO			
			P6-50					.20	NO		9	
A 141	1		J4-MM					.20	NO			
			P6-17					.20	NO		9	
A 142	1		J4-LL					.20	NO			
			P6-51					.20	NO		9	
A 143	1		J4-KK					.20	NO			
			P6-22					.20	NO		9	
A 144	1		J4-JJ					.20	NO			
			P6-45					.20	NO		9	
A 145	1		J4-HH					.20	NO			
			P6-47					.20	NO		9	
A 146	1		J4-GG					.20	NO			
			P6-27					.20	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE-NONE | REV LTR C | SHEET 21 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 147	1		J4-FF					.20	NO			
			P6-46					.20	NO		9	
A 148	1		J4-EE					.20	NO			
			P6-21					.20	NO		9	
A 149	1		J4-DD					.20	NO			
			P6-53					.20	NO		9	
A 150	1		J4-CC					.20	NO			
			P6-14					.20	NO		9	
A 151	1		J4-BB					.20	NO			
			P6-52					.20	NO		9	
A 152	1		J4-AA					.20	NO			
			P6-15					.20	NO		9	
A 153	1		J4-Z*					.20	NO			
			P6-65					.20	NO		9	
A 154	1		J4-Y*					.20	NO			
			P6-2					.20	NO		9	
A 155	1		J4-X*					.20	NO			
			P6-64					.20	NO		9	
A 156	1		J4-W*					.20	NO			
			P6-3					.20	NO		9	
A 157	1		J4-V*					.20	NO			
			P6-59					.20	NO		9	
A 158	1		J4-U*					.20	NO			
			P6-8					.20	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 159	1		J4-T*					.20	NO			
			P6-58					.20	NO		9	
A 160	1		J4-S*					.20	NO			
			P6-9					.20	NO		9	
A 161	1		J4-R*					.20	NO			
			P6-10					.20	NO		9	
A 162	1		J4-Q*					.20	NO			
			P6-57					.20	NO		9	
A 163	1		J4-P*					.20	NO			
			P6-11					.20	NO		9	
A 164	1		J4-N*					.20	NO			
			P6-56					.20	NO		9	
A 165	1		J4-M*					.20	NO			
			P6-4					.20	NO		9	
A 166	1		J4-K*					.20	NO			
			P6-63					.20	NO		9	
A 167	1		J4-J*					.20	NO			
			P6-5					.20	NO		9	
A 168	1		J4-I*					.20	NO			
			P6-62					.20	NO		9	
A 169	1		J4-H*					.20	NO			
			P5-16					.20	NO		9	
A 170	1		J4-G*					.20	NO			
			P5-50					.20	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 171	1		J4-F*					.20	NO			
			P5-17					.20	NO		9	
A 172	1		J4-E*					.20	NO			
			P5-51					.20	NO		9	
A 173	1		J4-D*					.20	NO			
			P5-22					.20	NO		9	
A 174	1		J4-C*					.20	NO			
			P5-45					.20	NO		9	
A 175	1		J4-B*					.20	NO			
			P5-47					.20	NO		9	
A 176	1		J4-A*					.20	NO			
			P5-27					.20	NO		9	
A 177	1		J4-Z					.20	NO			
			P5-46					.20	NO		9	
A 178	1		J4-Y					.20	NO			
			P5-21					.20	NO		9	
A 179	1		J4-X					.20	NO			
			P5-53					.20	NO		9	
A 180	1		J4-W					.20	NO			
			P5-14					.20	NO		9	
A 181	1		J4-V					.20	NO			
			P5-52					.20	NO		9	
A 182	1		J4-U					.20	NO			
			P5-15					.20	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 183	1		J4-T					.20	NO			
			P5-65					.20	NO		9	
A 184	1		J4-S					.20	NO			
			P5-2					.20	NO		9	
A 185	1		J4-R					.20	NO			
			P5-64					.20	NO		9	
A 186	1		J4-P					.20	NO			
			P5-3					.20	NO		9	
A 187	1		J4-N					.20	NO			
			P5-59					.20	NO		9	
A 188	1		J4-M					.20	NO			
			P5-8					.20	NO		9	
A 189	1		J4-L					.20	NO			
			P5-58					.20	NO		9	
A 190	1		J4-K					.20	NO			
			P5-9					.20	NO		9	
A 191	1		J4-J					.20	NO			
			P5-10					.20	NO		9	
A 192	1		J4-H					.20	NO			
			P5-57					.20	NO		9	
A 193	1		J4-G					.20	NO			
			P5-11					.20	NO		9	
A 194	1		J4-F					.20	NO			
			P5-56					.20	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	1		J4-E P5-4					.20 .20	NO NO		9	
A 196	1		J4-D P5-63					.20 .20	NO NO		9	
A 197	1		J4-C P5-5					.20 .20	NO NO		9	
A 198	1		J4-B P5-62					.20 .20	NO NO		9	
A 199	1		L4-1 L3-2					.30 .30	YES YES		31	
A 200	1		L3-1 P4-15					.30 .20	YES NO		9	
A 201	1		L3-2 P3-52					.30 .20	YES NO		9	
A 202	1		L3-2 P4-39					.30 .20	YES NO		9	
A 203	1		L4-2 P4-16					.30 .20	YES NO		9	
A 204			DELETED									
A 205	1		T11-1 P4-48					.30 .20	YES NO		9	
A 206			DELETED									

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		T11-3 P4-17					.30 .20	YES NO		9	
A 208			DELETED									
A 209	1		T12-1 P4-47					.30 .20	YES NO		9	
A 210			DELETED									
A 211	1		T12-3 P4-18					.30 .20	YES NO		9	
A 212	1		T12-4 L8-1					.30 .30	YES YES		31 31	
A 213	1		T12-5 TB5-8					.30 .30	YES YES		31	
A 214	1		L8-2 TB5-2					.30 .30	YES YES		31	
A 215	1		T11-4 L7-1					.30 .30	YES YES		31 31	
A 216	1		T11-5 TB5-7					.30 .30	YES YES		31	
A 217	1		L7-2 TB5-1					.30 .30	YES YES		31	
A 218	1		T13-1 P4-27					.30 .20	YES NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 219	1		T13-3 P4-51					.30 .20	YES NO		9	
A 220	1		T13-4 L9-1					.30 .30	YES YES		31 31	
A 221	1		T13-5 TB5-10					.30 .30	YES YES		31	
A 222	1		L9-2 TB5-9					.30 .30	YES YES		31	
A 223	1		T14-1 P4-28					.30 .20	YES NO		9	
A 224	1		T14-3 P4-52					.30 .20	YES NO		9	
A 225	1		T14-4 L10-1					.30 .30	YES YES		31 31	
A 226	1		T14-5 TB5-12					.30 .30	YES YES		31	
A 227	1		L10-2 TB5-11					.30 .30	YES YES		31	
A 228	1		T15-1 P4-29					.30 .20	YES NO		9	
A 229	1		T15-3 P4-53					.30 .20	YES NO		9	
A 230	1		T15-4 L11-1					.30 .30	YES YES		31 31	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 231	1		T15-5 TB5-14					.30 .30	YES YES		31	
A 232	1		L11-2 TB5-13					.30 .30	YES YES		31	
A 233	1		T16-1 P4-30					.30 .20	YES NO		9	
A 234	1		T16-2 E2					.30 .30	YES NO		31	
A 235	1		E2 P4-8					.30 .20	NO NO		9	
A 236	1		E2 P3-4					.30 .20	NO NO		9	
A 237	1		E2 P1-28					.30 .20	NO NO		9	
A 238	1		E2 XDS2-G					.30 .30	NO YES		22, 17	
A 239	1		T16-3 P4-54					.30 .20	YES NO		9	
A 240	1		T16-4 L12-1					.30 .30	YES YES		31 31	
A 241	1		T16-5 TB5-16					.30 .30	YES YES		31	
A 242	1		L12-2 TB5-15					.30 .30	YES YES		31	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 243	1		TB3-74				.30	YES			
			P4-40				.20	NO		9	
A 244	1		TB3-75				.30	YES			
			P4-14				.20	NO		9	
A 245	1		P4-61				.20	NO		9	
			TB4-12				.30	YES			
A 246	1		TB4-12				.30	YES			
			P7-48				.20	NO		9	
A 247	1		P4-45				.20	NO		9	
			P1-17				.20	NO		9	
A 248	1		P4-46				.20	NO		9	
			P1-53				.20	NO		9	
A 249	1		P4-7				.20	NO		9	
			P1-18				.20	NO		9	
A 250	1		P4-13				.20	NO		9	
			P1-54				.20	NO		9	
A 251	1		P4-59				.20	NO		9	
			T17-3				.30	YES		31	
A 252	1		T17-3				.30	YES			
			S15SW1-NC				.30	YES			
A 253	1		S15SW2-NO				.30	YES			
			P1-24				.20	NO		9	
A 254	1		P4-60				.20	NO		9	
			T17-4				.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR C	SHEET 30 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 255	1		T17-4				.30	YES			
			S15SW2-NC				.30	YES			
A 256	1		S15SW1-NO				.30	YES			
			P1-48				.20	NO		9	
A 257	1		XF1-1				.30	YES			
			J26				.30	YES			
A 258	1		E2				.30	YES			
			J27				.30	YES			
A 259	1		P3-28				.20	NO		9	
			P1-35				.20	NO		9	
A 260	1		E3				.30	NO			
			P7-64				.20	NO		9	
A 261	1		E3				.30	NO			
			P1-16				.20	NO		9	
A 262	1		E3				.30	NO		23, 16	
			P3-22				.20	NO		9	
A 263	1		XF2-2				.30	YES			
			P3-46				.20	NO		9	
A 264	1		XF2-2				.30	YES			
			Y1-3				.30	YES		31	
A 265	1		Y1-3				.30	YES			
			Y2-3				.30	YES		31	
A 266	1		Y2-3				.30	YES			
			Y3-3				.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR C	SHEET 31 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 267	1		Y3-3				.30	YES			
			R77-1				.30	YES			
A 268	1		R77-1				.30	YES			
			TB6-34				.30	YES			
A 269	1		XF1-2				.30	YES			
			TB3-42				.30	YES			
A 270			DELETED								
A 271			DELETED								
A 272	1		XF1-2				.30	YES			
			P3-64				.20	NO		9	
A 273	1		TB3-42				.30	YES			
			R78-1				.30	YES			
A 274	1		S15SW3-C				.30	YES			
			R78-1				.30	YES			
A 275	1		XF3-2				.30	YES			
			P2-6				.20	NO		9	
A 276	1		XF3-2				.30	YES			
			L5-1				.30	YES		31	
A 277	1		L5-1				.30	YES			
			T17-1				.30	YES		31	
A 278	1		T17-1				.30	YES			
			TB1-41				.30	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR C	SHEET 32 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 279	1		L5-2				.30	YES		31	
			R75-1				.30	YES			
A 280	1		TB1-42				.30	YES			
			T17-2				.30	YES		31	
A 281	1		T17-2				.30	YES			
			R75-2				.30	YES			
A 282	1		R75-2				.30	YES			
			P2-29				.20	NO		9	
A 283	1		P2-23				.20	NO		9	
			P1-5				.20	NO		9	
A 284	1		P2-30				.20	NO		9	
			P1-6				.20	NO		9	
A 285	1		P2-34				.20	NO		9	
			P1-65				.20	NO		9	
A 286	1		P2-40				.20	NO		9	
			P1-66				.20	NO		9	
A 287	1		P2-38				.20	NO		9	
			P1-23				.20	NO		9	
A 288	1		P2-44				.20	NO		9	
			P1-47				.20	NO		9	
A 289	1		XF4-2				.30	YES			
			P2-53				.20	NO		9	
A 290	1		XF4-2				.30	YES			
			L6-1				.30	YES		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902258
SCALE - NONE	REV LTR C	SHEET 33 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 291	1		L6-1					.30	YES			
			T18-1					.30	YES		31	
A 292	1		T18-1					.30	YES			
			TB1-50					.30	YES			
A 293	1		L6-2					.30	YES		31	
			R76-1					.30	YES			
A 294	1		TB1-51					.30	YES			
			T18-2					.30	YES		31	
A 295	1		T18-2					.30	YES			
			R76-2					.30	YES			
A 296	1		R76-2					.30	YES			
			P2-57					.20	NO		9	
A 297	1		P1-4					.20	NO		9	
			TB3-34					.30	YES			
A 298	1		P1-22					.20	NO		9	
			TB3-36					.30	YES			
A 299	1		P1-29					.20	NO		9	
			TB2-35					.30	YES			
A 300	1		TB2-35					.30	YES			
			TB3-32					.30	YES			
A 301	1		TB3-32					.30	YES			
			XDS1-G					.30	YES			
A 302	1		XDS1-G					.30	YES			
			P7-23					.20	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 303	1		P1-36					.20	NO		9	
			XF6-1					.30	YES			
A 304	1		P1-41					.20	NO		9	
			TB2-33					.30	YES			
A 305	1		TB2-33					.30	YES			
			TB3-31					.30	YES			
A 306	1		TB3-31					.30	YES			
			J23					.30	YES			
A 307	1		XF6-2					.30	YES			
			TB3-30					.30	YES			
A 308	1		TB3-30					.30	YES			
			TB2-34					.30	YES			
A 309	1		TB2-34					.30	YES			
			J22					.30	YES			
A 310	1		P1-30					.20	NO		9	
			XF7-1					.30	YES			
A 311	1		XF7-2					.30	YES			
			TB3-33					.30	YES			
A 312	1		TB3-33					.30	YES			
			TB2-36					.30	YES			
A 313	1		TB2-36					.30	YES			
			J24					.30	YES			
A 314	1		P1-42					.20	NO		9	
			TB3-35					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 315	1		TB3-35					.30	YES			
			TB2-37					.30	YES			
A 316	1		TB2-37					.30	YES			
			J25					.30	YES			
A 317	1		TB3-41					.30	YES			
			TB2-50					.30	YES			
A 318	1		TB2-43					.30	YES			
			XDS1-D					.30	YES			
A 319	1		TB3-40					.30	YES			
			XDS1-A					.30	YES			
A 320	1		TB3-77					.30	YES			
			TB2-46					.30	YES			
A 321	3				1.00	.75					A 15	
					1.25	1.00				4	A 15, 11, 13	
A 321B	1		E8					.30	NO			
			SHLD A321					.25	NO			
A 321W			TB2-44					.30	YES			
			XF5-2					.30	YES			
A 322	3				1.00	.75					A 15	
					1.25	1.00				4	A 15, 11, 13	
A 322B	1		E9					.30	NO			
			SHLD A322					.25	NO			
A 322W			TB2-45					.30	YES			
			TB1-45					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 323	2				1.25	1.00				4	A 15, 12, 14	
					1.00	.75					A 15	
A 323A	1		SHLD A323					.25	NO			
			E9					.30	NO			
A 323L			TB1-44					.30	YES			
			P8-42					.20	NO		9	
A 323R			TB1-45					.30	YES			
			P8-17					.20	NO		9	
A 324	2				1.25	1.00				4	A 15, 12, 14	
					1.00	.75					A 15	
A 324A	1		SHLD A324					.25	NO			
			E9					.30	NO			
A 324L			TB1-44					.30	YES			
			P7-36					.20	NO		9	
A 324R			TB1-54					.30	YES			
			P7-40					.20	NO		9	
A 325	2				1.00	.75					A 15	
					1.25	1.00				4	A 15, 12, 14	
A 325B	1		E8					.30	NO			
			SHLD A325					.25	NO			
A 325L			P8-36					.20	NO		9	
			XF5-1					.30	YES			
A 325R			P8-65					.20	NO		9	
			XF5-2					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 326A	1		SHLD A326 E9					.25 .30	NO NO			
A 326L			TB1-49 P8-59					.30 .20	YES NO		9	
A 326R			TB1-47 P8-11					.30 .20	YES NO		9	
A 327	2				1.25 1.25	1.00 1.00				4	A 15, 12, 14 A 15	
A 327A	1		SHLD A327 E9					.25 .30	NO NO			
A 327L			TB1-49 J19					.30 .30	YES YES			
A 327R			TB1-47 J20					.30 .30	YES YES			
A 328	3				1.25 1.00	1.00 .75				4	A 15, 11, 13 A 15	
A 328A	1		SHLD A328 E9					.25 .30	NO NO			
A 328W			TB1-58 J21					.30 .30	YES YES			
A 329	3				1.25 1.00	1.00 .75				4	A 15, 11, 13 A 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 38 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329A	1		SHLD A329 E9					.25 .30	NO NO			
A 329W			TB1-58 P8-53					.30 .20	YES NO		9	
A 330	1		CR27-2 CR26-2					.30 .30	YES YES			
A 331	1		CR26-2 T18-4					.30 .30	YES YES		31	
A 332	1		T18-4 Y3-2					.30 .30	YES YES		31	
A 333	1		Y3-2 Y2-2					.30 .30	YES YES		31	
A 334	1		Y2-2 Y1-2					.30 .30	YES YES		31	
A 335	1		TB6-33 FL1-C					.30 .30	YES YES		31	
A 336	1		TB6-32 FL2-C					.30 .30	YES YES		31	
A 337	1		TB6-31 FL3-C					.30 .30	YES YES		31	
A 338	1		TB6-30 FL4-C					.30 .30	YES YES		31	
A 339	1		Y1-2 J14-H*					.30 .30	YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 39 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 340	1		J15-H* T84-3					.30 .30	YES YES			
A 341	1		T84-3 R80-3					.30 .30	YES YES			
A 342	1		R80-3 R78-3					.30 .30	YES YES			
A 343	1		R78-3 S9-4					.30 .30	YES YES			
A 344	1		S9-4 TB6-35					.30 .30	YES YES			
A 345	1		TB6-28 P3-42					.30 .20	YES NO		9	
A 346	1		TB6-29 P7-66					.30 .20	YES NO		9	
A 347	1		J14-L J15-L					.30 .30	YES YES			
*A 348	1		T84-11 P1-10					.30 .20	YES NO		9	
A 349	1		T18-3 T84-4					.30 .30	YES YES		31	
*A 350	1		T18-5 T84-5					.30 .30	YES YES		31	
A 351	1		T84-2 CR26-1					.30 .30	YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 40 OF 50

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 352	1		T84-1 J13-J*					.30 .30	YES YES			
A 353	1		J14-J* J15-J*					.30 .30	YES YES			
A 354	1		R77-2 CR27-1					.30 .30	YES YES			
A 355	1		R77-2 J13-K*					.30 .30	YES YES			
A 356	1		J14-K* J15-K*					.30 .30	YES YES			
A 357	1		S15SW1-C R81-1					.30 .30	YES YES			
A 358	1		S15SW2-C R81-3					.30 .30	YES YES			
A 359	1		R81-3 P7-11					.30 .20	YES NO		9	
A 360	1		R81-2 P7-65					.30 .20	YES NO		9	
A 361	1		P5-40 P7-63					.20 .20	NO NO		9 9	
A 362	1		P5-41 P7-3					.20 .20	NO NO		9 9	
A 363	1		P6-40 P7-32					.20 .20	NO NO		9 9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902258 | SCALE - NONE | REV LTR C | SHEET 41 OF 50

CONTRACT NAS 9-497	SCALE —		SHEET 1 OF 1	
NASA APPROVAL [illegible] 196[illegible]	CODE IDENT NO.	SIZE	1902264	REV
MIT APPROVAL [illegible] 196[illegible]		A		A
APPROVAL [illegible] 3/4/65				
APPROVAL [illegible]				
CHECKED [illegible] 14 FEB 65				
DRAWN [illegible] DATE 13 FEB 65				
ACSP PN				

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G9E/PSA JUNCTION BOX
SCHEMATIC DIAGRAM
RUNNING LIST

NEXT ASSY	USED ON
1902195-011	1902195-011

APPLICATION

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	UPGRADED TO CLASS M PER TDRR	20-MAR-65	[illegible]

1 2 3 4 5

NEXT ASSY
REV
SHEET
REV STATUS
OF SHEETS

Print Ure
Incomplete

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902195-011	1902195-011	A	UPGRADED TO CLASS 'A' PER TDRR	20-MAR-65	
		B	REPLACED WITH CHANGE BY REV 'C' PER TDRR 20919	27-JUL-65	EF

PICTURE INCOMPLETE

(B) REPLACED WITH CHANGE BY REV C

REV	
SHEET	
REV STATUS	REV B
OF SHEETS	SHEET 1

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. J. [illegible] DATE 15 FEB 65
CHECKED Ed Foster 16 FEB 65
APPROVAL [illegible] 16 FEB 65
APPROVAL [illegible] 3 Feb 65

NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

GSE/IPSA JUNCTION BOX SCHEMATIC DIAGRAM RUNNING LIST

CODE IDENT NO.	SIZE		REV
99974	A	1902264	B

SCALE —

SHEET 1 OF 1

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
47	C	83	C	119	C	155	C												
48	C	84	C	120	C	156	C												
49	C	85	C	121	C	157	C												
50	C	86	C	122	C	158	C												
51	C	87	C	123	C	159	C												
52	C	88	C	124	C	160	C												
53	C	89	C	125	C	161	C												
54	C	90	C	126	C	162	C												
55	C	91	C	127	C	163	C												
56	C	92	C	128	C	164	C												
57	C	93	C	129	C	165	C												
58	C	94	C	130	C	166	C												
59	C	95	C	131	C	167	C												
60	C	96	C	132	C	168	C												
61	C	97	C	133	C	169	C												
62	C	98	C	134	C	170	C												
63	C	99	C	135	C	171	C												
64	C	100	C	136	C	172	C												
65	C	101	C	137	C	173	C												
66	C	102	C	138	C														
67	C	103	C	139	C														
68	C	104	C	140	C														
69	C	105	C	141	C														
70	C	106	C	142	C														
71	C	107	C	143	C														
72	C	108	C	144	C														
73	C	109	C	145	C														
74	C	110	C	146	C														
75	C	111	C	147	C														
76	C	112	C	148	C														
77	C	113	C	149	C														
78	C	114	C	150	C														
79	C	115	C	151	C														
80	C	116	C	152	C														
81	C	117	C	153	C														
82	C	118	C	154	C														

NASA DRAWING NO. 1902264 SHEET 2 OF 173

REVISION A

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GZB RUNNING LIST 1902264 3

PENNANT NOTE	GENERAL NOTES
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY K - WHITE WITH LETTER K L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER R - WHITE WITH LETTER R OR WHITE WITH RED TRACER W - WHITE OR WHITE WITH LETTER W X - COAX OUTER CONDUCTOR Y - WHITE WITH LETTER Y OR WHITE WITH YELLOW TRACER
3	NETWORK NUMBERS (NET NO.) INDICATE CIRCUIT CONTINUITY BETWEEN AND THRU PARTS WHERE RESISTANCE IS CONSIDERED ZERO FOR TEST PURPOSES, EXCLUDING SWITCHING COMPONENTS.
4	SEE PICTORIAL DIAGRAM FOR NETWORKS INTERRUPTED BY SWITCHING COMPONENTS AND PARTS WHERE RESISTANCE IS NOT CONSIDERED ZERO FOR TEST PURPOSES
5	ALL PART NUMBERS ARE FOR REFERENCE ONLY
6	RELAYS ARE SHOWN IN THE UNENERGIZED OR OFF POSITION
7	BARS PLACED OVER LETTERS OR ASTERISKED SUFFIXES INDICATE LOWER CASE LETTERS.
8	UNLESS OTHERWISE SPECIFIED ALL CONDUCTORS ARE WHITE
9	LAST NETWORK NUMBER USED (512)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE - NONE	REV LTR C	SHEET 3 OF 173

MIL 2084 4-63

REVISIONS TDRR 17842

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES REVISION B WITH CHANGE PER TDRR 2919	28 MAY 65	DKD — WL

APPLICATION

NEXT ASSY	USED ON
1902195-011	1902195-011

© REPLACES REV(B) WITH CHANGE

REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REV STATUS					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																
SHEET	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REV STATUS	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
SHEET	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
REV STATUS	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SHEET	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
REV STATUS	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
SHEET	161	162	163	164	165	166	167	168	169	170	171	172	173																											
REV STATUS	C	C	C	C	C	C	C	C	C	C	C	C	C																											
OF SHEETS	141	142	143	144	145	146	147	148	149	150	151	152	153																											

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

DRAWN	Greg Lasko	16 MAR 65 DATE
CHECKED	Gayle Taylor	2 MAY 65
APPROVAL	[illegible]	2 MAY 65
APPROVAL	W. Watters	2-11-65
NASA APPROVAL	[illegible]	2/11/65
MIT APPROVAL	[illegible]	2/11/65

GSE-PSA JUNCTION BOX
SCHEMATIC DIAGRAM

CODE IDENT NO.	SIZE		REV
99974		1902264	C
SCALE —			SHEET 1 OF 173

CONTRACT NAS9-497

GZB RUNNING LIST 1902264 4

PENNANT NOTE	GENERAL NOTES
10	DRAWINGS FOR REFERENCE 1902255 WIRING HARNESS A 1902195 GSE-PSA JUNCTION BOX

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE - NONE	REV LTR C	SHEET 4 OF 173

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E 1 SPLICER 1016284-001				
E1	J25-A5	A 11R	IG DAC MDA SIGNAL LO		1
E1	J26-B1	A 12R	IG DAC MDA SIGNAL LO		1
	E 2 SPLICER 1016284-001				
E2	J25-A4	A 11L	IG DAC MDA SIGNAL HI		2
E2	J26-B2	A 12L	IG DAC MDA SIGNAL HI		2
	E 3 SPLICER 1016284-001				
E3	J25-A7	A 20R	MG DAC MDA SIGNAL LO		3
E3	J26-B3	A 21R	MG CDU MDA INPUT RETURN		3
	E 4 SPLICER 1016284-001				
E4	J25-A6	A 20L	MG DAC MDA SIGNAL HI		4
E4	J26-B4	A 21L	MG CDU MDA SIGNAL HI		4
	E 5 SPLICER 1016284-001				
E5	J25-A9	A 31R	OG DAC MDA SIGNAL LO		5
E5	J26-B5	A 32R	OG CDU MDA INPUT RETURN		5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264	
SCALE - NONE	REV LTR C		SHEET 5 OF 17

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E 6 SPLICER 1016284-001				
E6	J25-A8	A 31L	OG DAC MDA SIGNAL HI		6
E6	J26-B6	A 32L	OG DAC MDA SIGNAL HI		6
	E 7 SPLICE REDUCER 1016006-003				
E7	SHLD A255	A 255B	SHIELD GRD		7
E7	SHLD A268	A 268A	SHIELD GRD		7
E7	SHLD A271	A 271A	SHIELD GRD		7
E7	SHLD A272	A 272A	SHIELD GRD		7
E7	SHLD A288	A 288A	SHIELD GRD		7
E7	SHLD A294	A 294A	SHIELD GRD		7
E7	SHLD A335	A 335A	SHIELD GRD		7
E7	SHLD A336	A 336A	SHIELD GRD		7
E7	TB3-13A	A 675	SHIELD GRD		7
E7	SHLD A708	A 708A	SHIELD GRD		7
E7	SHLD A711	A 711A	SHIELD GRD		7
	E 8 SPLICE REDUCER 1016006-003				
E8	SHLD A225	A 225B	SHIELD GRD		7
E8	SHLD A232	A 232B	SHIELD GRD		7
E8	SHLD A245	A 245B	SHIELD GRD		7
E8	SHLD A246	A 246B	SHIELD GRD		7
E8	SHLD A247	A 247B	SHIELD GRD		7
E8	SHLD A248	A 248B	SHIELD GRD		7
E8	SHLD A249	A 249B	SHIELD GRD		7
E8	SHLD A250	A 250B	SHIELD GRD		7
E8	SHLD A466	A 466B	SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264	
SCALE - NONE	REV LTR C		SHEET 6 OF 17

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E12 SPLICE REDUCER 1016006-002				
E12	SHLD A120	A 120B	SHIELD GRD		7
E12	SHLD A121	A 121B	SHIELD GRD		7
E12	SHLD A126	A 126B	SHIELD GRD		7
E12	SHLD A127	A 127B	SHIELD GRD		7
E12	SHLD A128	A 128B	SHIELD GRD		7
E12	SHLD A228	A 228A	SHIELD GRD		7
E12	SHLD A237	A 237A	SHIELD GRD		7
E12	SHLD A273	A 273A	SHIELD GRD		7
E12	SHLD A469	A 469A	SHIELD GRD		7
E12	TB3-13B	A 677	SHIELD GRD		7
	E13 SPLICE REDUCER 1016006-002				
E13	TB3-13C	A 678	SHIELD GRD		7
E13	SHLD A771	A 771A	SHIELD GRD		7
E13	SHLD A806	A 806A	SHIELD GRD		7
E13	SHLD A807	A 807A	SHIELD GRD		7
E13	SHLD A809	A 809A	SHIELD GRD		7
E13	SHLD A811	A 811A	SHIELD GRD		7
	E14 SPLICE REDUCER 1016006-003				
E14	SHLD A387	A 387B	SHIELD GRD		7
E14	SHLD A390	A 390B	SHIELD GRD		7
E14	SHLD A393	A 393B	SHIELD GRD		7
E14	TB3-13C	A 679	SHIELD GRD		7
E14	SHLD A777	A 777B	SHIELD GRD		7
E14	SHLD A782	A 782A	SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264	
SCALE - NONE	REV LTR C		SHEET 8 OF 17

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E 8	SPLICE REDUCER 1016006-003				
E8	SHLD A470	A 470B	SHIELD GRD		7
E8	SHLD A473	A 473B	SHIELD GRD		7
E8	TB3-13A	A 676	SHIELD GRD		7
	E 9 SPLICE REDUCER 1016006-001				
E9	SHLD A628	A 628A	0 VDC IMU		7
E9	SHLD A631	A 631A	0 VDC IMU		7
E9	SHLD A635	A 635A	0 VDC IMU		7
E9	TB1-28A	A 645	0 VDC IMU		7
	E10 SPLICE REDUCER 1016006-001				
E10	TB5-3	A 630	0 VDC IMU		7
E10	TB5-9	A 633	0 VDC IMU		7
E10	TB5-15	A 637	0 VDC IMU		7
E10	TB1-28A	A 646	0 VDC IMU		7
	E11 SPLICE REDUCER 1016006-001				
E11	TB3-12A	A 660	400 CPS SHIELD GRD		8
E11	J18-KK	A 661	400 CPS SHIELD GRD		8
E11	J19-KK	A 662	400 CPS SHIELD GRD		8
E11	J31-MM	A 663	400 CPS SHIELD GRD		8
E11	J32-PP	A 664	400 CPS SHIELD GRD		8

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264	
SCALE - NONE	REV LTR C		SHEET 7 OF 17

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E14	SPLICE REDUCER 1016006-003				
E14	SHLD	A783	A 783A SHIELD GRD		7
E14	SHLD	A787	A 787A SHIELD GRD		7
E14	SHLD	A788	A 788A SHIELD GRD		7
E14	SHLD	A791	A 791A SHIELD GRD		7
E14	SHLD	A792	A 792A SHIELD GRD		7
E14	SHLD	A799	A 799A SHIELD GRD		7
E14	SHLD	A804	A 804A SHIELD GRD		7
E15	SPLICE REDUCER 1016006-002				
E15	SHLD	A209	A 209B SHIELD GRD		7
E15	SHLD	A210	A 210B SHIELD GRD		7
E15	SHLD	A211	A 211B SHIELD GRD		7
E15	SHLD	A212	A 212B SHIELD GRD		7
E15	SHLD	A214	A 214B SHIELD GRD		7
E15	TB3-13D		A 680 SHIELD GRD		7
E15	SHLD	A707	A 707B SHIELD GRD		7
E15	SHLD	A746	A 746B SHIELD GRD		7
E15	SHLD	A754	A 754B SHIELD GRD		7
E16	SPLICE REDUCER 1016006-003				
E16	SHLD	A82	A 82A SHIELD GRD		7
E16	SHLD	A136	A 136A SHIELD GRD		7
E16	SHLD	A143	A 143A SHIELD GRD		7
E16	SHLD	A152	A 152A SHIELD GRD		7
E16	SHLD	A157	A 157B SHIELD GRD		7
E16	SHLD	A158	A 158B SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE - NONE	REV LTR C	SHEET 9 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E16	SPLICE REDUCER 1016006-003				
E16	SHLD	A159	A 159B SHIELD GRD		7
E16	SHLD	A165	A 165B SHIELD GRD		7
E16	SHLD	A167	A 167B SHIELD GRD		7
E16	SHLD	A169	A 169A SHIELD GRD		7
E16	SHLD	A171	A 171A SHIELD GRD		7
E16	SHLD	A173	A 173A SHIELD GRD		7
E16	TB3-13D		A 681 SHIELD GRD		7
E17	SPLICE REDUCER 1016006-002				
E17	SHLD	A146	A 146A SHIELD GRD		7
E17	SHLD	A148	A 148A SHIELD GRD		7
E17	SHLD	A175	A 175A SHIELD GRD		7
E17	SHLD	A187	A 187B SHIELD GRD		7
E17	SHLD	A188	A 188B SHIELD GRD		7
E17	SHLD	A189	A 189B SHIELD GRD		7
E17	SHLD	A190	A 190B SHIELD GRD		7
E17	SHLD	A191	A 191B SHIELD GRD		7
E17	SHLD	A192	A 192B SHIELD GRD		7
E17	TB3-14A		A 682 SHIELD GRD		7
E18	SPLICE REDUCER 1016006-003				
E18	SHLD	A193	A 193B SHIELD GRD		7
E18	SHLD	A194	A 194B SHIELD GRD		7
E18	SHLD	A195	A 195B SHIELD GRD		7
E18	SHLD	A201	A 201A SHIELD GRD		7
E18	SHLD	A202	A 202B SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE - NONE	REV LTR C	SHEET 10 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E18	SPLICE REDUCER 1016006-003				
E18	SHLD	A203	A 203B SHIELD GRD		7
E18	SHLD	A204	A 204B SHIELD GRD		7
E18	SHLD	A205	A 205B SHIELD GRD		7
E18	SHLD	A206	A 206B SHIELD GRD		7
E18	SHLD	A207	A 207B SHIELD GRD		7
E18	TB3-14A		A 683 SHIELD GRD		7
E19	SPLICE REDUCER 1016006-002				
E19	SHLD	A40	A 40B SHIELD GRD		7
E19	SHLD	A41	A 41B SHIELD GRD		7
E19	SHLD	A53	A 53B SHIELD GRD		7
E19	SHLD	A55	A 55B SHIELD GRD		7
E19	SHLD	A295	A 295B SHIELD GRD		7
E19	SHLD	A308	A 308B SHIELD GRD		7
E19	SHLD	A309	A 309B SHIELD GRD		7
E19	SHLD	A320	A 320B SHIELD GRD		7
E19	TB3-14B		A 684 SHIELD GRD		7
E20	SPLICE REDUCER 1016006-003				
E20	SHLD	A36	A 36B SHIELD GRD		7
E20	SHLD	A37	A 37B SHIELD GRD		7
E20	SHLD	A38	A 38B SHIELD GRD		7
E20	SHLD	A39	A 39B SHIELD GRD		7
E20	SHLD	A338	A 338A SHIELD GRD		7
E20	SHLD	A339	A 339A SHIELD GRD		7
E20	SHLD	A345	A 345B SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE - NONE	REV LTR C	SHEET 11 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E20	SPLICE REDUCER 1016006-003				
E20	SHLD	A346	A 346B SHIELD GRD		7
E20	SHLD	A349	A 349B SHIELD GRD		7
E20	TB3-14C		A 685 SHIELD GRD		7
E21	SPLICE REDUCER 1016006-003				
E21	SHLD	A73	A 73B SHIELD GRD		7
E21	SHLD	A74	A 74B SHIELD GRD		7
E21	SHLD	A75	A 75B SHIELD GRD		7
E21	SHLD	A76	A 76B SHIELD GRD		7
E21	SHLD	A78	A 78B SHIELD GRD		7
E21	SHLD	A79	A 79B SHIELD GRD		7
E21	SHLD	A80	A 80B SHIELD GRD		7
E21	SHLD	A81	A 81B SHIELD GRD		7
E21	SHLD	A84	A 84B SHIELD GRD		7
E21	SHLD	A642	A 642A SHIELD GRD		7
E21	TB3-14C		A 686 SHIELD GRD		7
E21	SHLD	A763	A 763A SHIELD GRD		7
E21	SHLD	A764	A 764A SHIELD GRD		7
E21	SHLD	A765	A 765A SHIELD GRD		7
E21	SHLD	A766	A 766A SHIELD GRD		7
E22	SPLICE REDUCER 1016006-003				
E22	SHLD	A133	A 133A SHIELD GRD		7
E22	SHLD	A135	A 135A SHIELD GRD		7
E22	SHLD	A139	A 139B SHIELD GRD		7
E22	SHLD	A142	A 142B SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE - NONE	REV LTR C	SHEET 12 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E22	SPLICE REDUCER 1016006-003				
E22	SHLD	A151	A 151A SHIELD GRD		7
E22	SHLD	A370	A 370B SHIELD GRD		7
E22	SHLD	A371	A 371A SHIELD GRD		7
E22	SHLD	A455	A 455A SHIELD GRD		7
E22	SHLD	A611	A 611A SHIELD GRD		7
E22	SHLD	A612	A 612B SHIELD GRD		7
E22	SHLD	A613	A 613B SHIELD GRD		7
E22	SHLD	A620	A 620A SHIELD GRD		7
E22	T83-14D		A 687 SHIELD GRD		7
E23	SPLICE REDUCER 1016006-003				
E23	SHLD	A52	A 52A SHIELD GRD		7
E23	SHLD	A54	A 54A SHIELD GRD		7
E23	SHLD	A168	A 168A SHIELD GRD		7
E23	SHLD	A170	A 170A SHIELD GRD		7
E23	SHLD	A172	A 172A SHIELD GRD		7
E23	SHLD	A174	A 174A SHIELD GRD		7
E23	SHLD	A213	A 213A SHIELD GRD		7
E23	SHLD	A215	A 215A SHIELD GRD		7
E23	SHLD	A279	A 279A SHIELD GRD		7
E23	SHLD	A280	A 280A SHIELD GRD		7
E23	SHLD	A281	A 281A SHIELD GRD		7
E23	SHLD	A282	A 282A SHIELD GRD		7
E23	SHLD	A617	A 617A SHIELD GRD		7
E23	T83-14D		A 688 SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 13 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E24	SPLICE REDUCER 1016006-001				
E24	SHLD	A116	A 116A SHIELD GRD		7
E24	SHLD	A118	A 118A SHIELD GRD		7
E24	SHLD	A164	A 164A SHIELD GRD		7
E24	SHLD	A166	A 166A SHIELD GRD		7
E24	T83-15A		A 689 SHIELD GRD		7
E25	SPLICE REDUCER 1016006-003				
E25	SHLD	A256	A 256A SHIELD GRD		7
E25	SHLD	A259	A 259A SHIELD GRD		7
E25	SHLD	A289	A 289A SHIELD GRD		7
E25	SHLD	A290	A 290A SHIELD GRD		7
E25	SHLD	A291	A 291A SHIELD GRD		7
E25	SHLD	A389	A 389A SHIELD GRD		7
E25	SHLD	A392	A 392A SHIELD GRD		7
E25	SHLD	A622	A 622A SHIELD GRD		7
E25	T83-15A		A 690 SHIELD GRD		7
E25	SHLD	A770	A 770A SHIELD GRD		7
E25	SHLD	A808	A 808A SHIELD GRD		7
E25	SHLD	A810	A 810A SHIELD GRD		7
E26	SPLICE REDUCER 1016006-002				
E26	SHLD	A350	A 350A SHIELD GRD		7
E26	SHLD	A351	A 351A SHIELD GRD		7
E26	SHLD	A352	A 352A SHIELD GRD		7
E26	SHLD	A360	A 360A SHIELD GRD		7
E26	SHLD	A361	A 361A SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 14 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E26	SPLICE REDUCER 1016006-002				
E26	SHLD	A362	A 362A SHIELD GRD		7
E26	SHLD	A367	A 367A SHIELD GRD		7
E26	SHLD	A386	A 386A SHIELD GRD		7
E26	T83-15B		A 691 SHIELD GRD		7
E26	SHLD	A753	A 753A SHIELD GRD		7
E27	SPLICE REDUCER 1016006-003				
E27	SHLD	A13	A 13B SHIELD GRD		7
E27	SHLD	A22	A 22B SHIELD GRD		7
E27	SHLD	A33	A 33B SHIELD GRD		7
E27	SHLD	A131	A 131A SHIELD GRD		7
E27	SHLD	A132	A 132A SHIELD GRD		7
E27	SHLD	A137	A 137A SHIELD GRD		7
E27	SHLD	A138	A 138A SHIELD GRD		7
E27	SHLD	A140	A 140A SHIELD GRD		7
E27	SHLD	A144	A 144A SHIELD GRD		7
E27	SHLD	A145	A 145A SHIELD GRD		7
E27	SHLD	A149	A 149A SHIELD GRD		7
E27	T83-15C		A 692 SHIELD GRD		7
E28	SPLICE REDUCER 1016006-002				
E28	SHLD	A130	A 130A SHIELD GRD		7
E28	SHLD	A153	A 153A SHIELD GRD		7
E28	SHLD	A154	A 154A SHIELD GRD		7
E28	SHLD	A155	A 155A SHIELD GRD		7
E28	SHLD	A156	A 156A SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 15 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E28	SPLICE REDUCER 1016006-002				
E28	SHLD	A269	A 269A SHIELD GRD		7
E28	SHLD	A616	A 616B SHIELD GRD		7
E28	T83-15C		A 693 SHIELD GRD		7
E29	SPLICE REDUCER 1016006-002				
E29	SHLD	A372	A 372B SHIELD GRD		7
E29	SHLD	A614	A 614A SHIELD GRD		7
E29	SHLD	A615	A 615A SHIELD GRD		7
E29	SHLD	A618	A 618A SHIELD GRD		7
E29	SHLD	A619	A 619A SHIELD GRD		7
E29	T83-15D		A 694 SHIELD GRD		7
E30	SPLICE REDUCER 1016006-002				
E30	SHLD	A117	A 117A SHIELD GRD		7
E30	SHLD	A119	A 119A SHIELD GRD		7
E30	SHLD	A229	A 229A SHIELD GRD		7
E30	SHLD	A230	A 230A SHIELD GRD		7
E30	SHLD	A233	A 233A SHIELD GRD		7
E30	T83-15D		A 695 SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 16 OF 172

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E31	SPLICER 1016284-001			
E31	J25-B3	A 69	AGC COMMON		9
E31	J26-B7	A 817	AGC COMMON		9
	E32	SPLICE REDUCER 1016006-001			
E32	J3-Y	A 285R	OG TORQUE MCT HI		41
E32	J2-H	A 286R	OG TORQUE MCT HI		41
E32	J5-U	A 824	OG TORQUE MCT HI		41
	E33	SPLICE REDUCER 1016006-001			
E33	J3-X	A 285L	OG TORQUE MCT LO		42
E33	J2-J	A 286L	OG TORQUE MCT LO		42
E33	J5-V	A 825	OG TORQUE MCT LO		42
	E34	SPLICE REDUCER 1016006-001			
E34	J3-C*	A 284K	MG TORQUE MCT LO		78
E34	J3-Z	A 284Y	MG TORQUE MCT LO		78
E34	J5-W	A 826	MG TORQUE MCT LO		78

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E35	SPLICE REDUCER 1016006-001			
E35	J3-B*	A 284L	MG TORQUE MCT HI		79
E35	J3-A*	A 284R	MG TORQUE MCT HI		79
E35	J5-X	A 827	MG TORQUE MCT HI		79
	E36	SPLICE REDUCER 1016006-001			
E36	J3-G*	A 283L	IG TORQUE MCT HI		80
E36	J3-D*	A 283R	IG TORQUE MCT HI		80
E36	J5-Y	A 828	IG TORQUE MCT HI		80
	E37	SPLICE REDUCER 1016006-001			
E37	J3-E*	A 283Y	IG TORQUE MCT LO		81
E37	J3-F*	A 283K	IG TORQUE MCT LO		81
E37	J5-Z	A 829	IG TORQUE MCT LO		81
	E219	INSULATED FEED THROUGH STUD ASSY 1901658			
E219	TB3-18N	A 545	0 VDC IMU		7
E219	TB3-17V	A 572	0 VDC OPTICS		7
E219	TB3-2M	A 575	STRUCTURE GRD		7
E219	TB3-1V	A 576	SHIELD GRD		7
E219	TB3-7B	A 587	AGC 0 VDC BUS		7
E219	TB3-7C	A 588	AGC 0 VDC BUS		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J 1	32 SOCKET CONNECTOR MS3127E18-32S (1897122-320)			
J1-A	J26-S4	A 82R	800 CPS 28V 1 PCT HI IMU		10
J1-B	J26-P4	A 82L	IMU RSVR EXC 800 CPS 28V 1 PCT LO IMU		11
J1-C	J26-F7	A 174L	COS AOG 16 X S3		12
J1-D	J26-D7	A 174R	COS AOG 16 X S1		13
J1-E	J26-D8	A 168R	SIN AOG 16 X S2		14
J1-F	J26-D9	A 168L	SIN AOG 16 X S4		15
J1-G	J26-G3	A 172L	COS AMG 16 X S3		16
J1-H	J26-H3	A 172R	COS AMG 16 X S1		17
J1-J	J25-F8	A 54R	SIN AMG 16 X S2		18
J1-K	J25-F9	A 54L	SIN AMG 16 X S4		19
J1-L	J11-N*	A 282R	COS AMG 1 X S3		20
J1-M	J11-P*	A 282L	COS AMG 1 X S1		21
J1-N	J11-R*	A 280L	SIN AMG 1 X S2		22
J1-P	J11-C*	A 280R	SIN AMG 1 X S4		23
J1-R	K13-5	A 614R	3200 CPS 2V HI		24
J1-S	K13-3	A 614L	3200 CPS 2V LO		25
J1-T	K13-12	A 617R	3200 CPS 2V FDBK HI		26
J1-U	K13-10	A 617L	3200 CPS 2V FDBK LO		27
J1-V			SPARE		
J1-W	J26-G1	A 170L	COS AIG 16 X S3		28
J1-X	J26-H1	A 170R	COS AIG 16 X S1		29
J1-Y	J25-D8	A 52R	SIN AIG 16 X S2		30
J1-Z	J25-D7	A 52L	SIN AIG 16 X S4		31
J1-A*	J11-B*	A 281R	COS AIG 1 X S3		32
J1-B*	J11-C*	A 281L	COS AIG 1 X RET		33
J1-C*			SPARE		
J1-D*			SPARE		
J1-E*			SPARE		
J1-F*	J11-E*	A 279L	SIN AIG 1 X S2		34
J1-G*	J11-D*	A 279R	SIN AIG 1 X S4		35
J1-H*			SPARE		
J1-J*			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J 2	32 SOCKET CONNECTOR MS3127E18-32SX (1897122-322)			
J2-A	K14-11	A 372R	800 CPS 28V 5 PCT IMU WHL PHASE A		36
J2-B	K14-5	A 372L	800 CPS 28V 5 PCT IMU WHL LO		37
J2-C	K14-8	A 372Y	800 CPS 28V 5 PCT IMU WHL PHASE B		38
J2-D	TB2-42C	A 94	+28 VDC IMU		39
J2-E	TB3-18C	A 538	0 VDC IMU		7
J2-F	TB1-5A	A 332	- 28 VDC		40
J2-G	TB3-2P	A 574	STRUCTURE GRD		7
J2-H	E32	A 286R	OG TORQUE MCT HI		41
J2-J	E33	A 286L	OG TORQUE MCT LO		42
J2-K	J27-M2	A 747	IMU TEMP SENSOR COMMON		43
J2-L	J27-B5	A 711L	IRIG TEMP CONT SENSCR RETURN		44
J2-M	J27-B6	A 711R	IRIG TEMP CONT SENSCR HI		45
J2-N	J5-D	A 288R	ACCEL IND SENSOR HI		46
J2-P	J5-E	A 288L	ACCEL IND SENSOR RET		47
J2-R	J27-N4	A 707L	EMERG HTR LC - OPER AND STBY		48
J2-S			SPARE		
J2-T			SPARE		
J2-U			SPARE		
J2-V	J27-P1	A 746R	IMU CONTROL HEATER HI		49
J2-W	J27-N1	A 746L	IMU CONTROL HEATER LO		50
J2-X	J27-M4	A 707R	IMU EMERG HEATER HI		51
J2-Y	K2-7	A 724	EMERG HTR CONT MOD LO		52
J2-Z	J27-C6	A 708R	IRIG TEMP IND SENSCR HI		53
J2-A*	J27-C5	A 708L	IRIG TEMP IND SENSCR RETURN		54
J2-B*	J30-A6	A 253R	PRESSURE SENSOR + 28 VDC HI		55
J2-C*	J30-B6	A 253L	PRESSURE SENSCR + 28 VDC LO		56
J2-D*	J30-A4	A 252R	IMU PRESSURE MONITOR HI		57
J2-E*	J30-B4	A 252L	IMU PRESSURE MONITOR LO		58
J2-F*	TB2-10C	A 754R	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
J2-G*	TB2-8B	A 754L	800 CPS 28V 5 PCT L-90 DEG LO IMU		60
J2-H*			SPARE		
J2-J*			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 3	32 SOCKET CONNECTOR MS3127E18-32SY (1897122-323)				
J3-J*	J12-N*	A 816	GIMBAL LOCK SIGNAL		82
J 4	32 SOCKET CONNECTOR MS3127E18-32SZ (1897122-324)				
J4-A	J24-L6	A 309R	Z GYRO TORQUE +		83
J4-B	J24-N6	A 309L	Z GYRO TORQUE RETURN		84
J4-C	J24-M6	A 309Y	Z GYRO TORQUE -		85
J4-D	J23-C6	A 349R	X GYRO TORQUE +		86
J4-E	J23-F6	A 349L	X GYRO TORQUE RET		87
J4-F	J23-G6	A 349Y	X GYRO TORQUE -		88
J4-G	J24-M1	A 308R	Y GYRO TORQUE +		89
J4-H	J24-M3	A 308L	Y GYRO TORQUE RETURN		90
J4-J	J24-M2	A 308Y	Y GYRO TORQUE -		91
J4-K	J24-P1	A 295R	Z PIP TORQUE +		92
J4-L	J24-P3	A 295L	Z PIP TORQUE RETURN		93
J4-M	J24-P2	A 295Y	Z PIP TORQUE -		94
J4-N	J23-L3	A 346R	Y PIP TORQUE +		95
J4-P	J23-M3	A 346L	Y PIP TORQUE RET		96
J4-R	J23-N3	A 346Y	Y PIP TORQUE -		97
J4-S	J4-T	A 347	SHIELD GRD		7
J4-T	J4-S	A 347	SHIELD GRD		7
J4-T	TB3-1D	A 348	SHIELD GRD		7
J4-U	J23-H1	A 345R	X PIP TORQUE +		98
J4-V	J23-K1	A 345L	X PIP TORQUE RET		99
J4-W	J23-L1	A 345Y	X PIP TORQUE -		100
J4-X	J23-A1	A 335R	X PIP ERROR HI		101
J4-Y	J23-B1	A 335L	X PIP ERROR LO		102
J4-Z	J23-A3	A 336R	Y PIP ERROR HI		103
J4-A*	J23-B3	A 336L	Y PIP ERROR LO		104
J4-B*	J24-A1	A 294R	Z PIP ERROR HI		105

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J 3	32 SOCKET CONNECTOR MS3127E18-32SY (1897122-323)				
J3-A			SPARE		
J3-A	TB3-3D	A 116W	X GYRO ERROR SIGNAL		61
J3-B	TB3-3B	A 118W	Z GYRO ERROR SIGNAL		62
J3-C	TB3-6B	A 129R	IMU OG ERROR SIGNAL		63
J3-D	J26-B8	A 166R	COS AOG 1 X S3		64
J3-E	J26-C8	A 166L	COS AOG 1 X S1		65
J3-F	J26-A9	A 164L	SIN AOG 1 X S4		66
J3-G	J26-A8	A 164R	SIN AOG 1 X S2		67
J3-H	J21-C1	A 135L	IG CDU ATTITUDE STEERING ERROR		68
J3-J	J21-B1	A 135R	IG CDU ERROR SIGNAL RETURN		69
J3-K	J21-B2	A 142R	MG CDU ERROR SIGNAL RETURN		70
J3-L	J21-C2	A 142L	MG CDU ATTITUDE STEERING ERROR		71
J3-M	J27-C3	A 215L	YAW ERROR BODY OFFSET AXIS LC		72
J3-N	J27-C2	A 215R	PITCH - YAW RSVR S3		73
J3-P	J27-C1	A 213L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74
J3-R	J27-C2	A 213R	PITCH - YAW RSVR S4		75
J3-S			SPARE		
J3-T			SPARE		
J3-U	TB3-6C	A 129L	IMU IG AND Y GYRO ERROR SIGNAL		76
J3-V	TB3-5A	A 129K	0 VDC IMU		7
J3-W	TB3-6D	A 129Y	IMU MG ERROR SIGNAL		77
J3-X	E33	A 285L	OG TORQUE MCT LO		42
J3-Y	E32	A 285R	OG TORQUE MCT HI		41
J3-Z	E34	A 284Y	MG TORQUE MCT LO		78
J3-A*	E35	A 284R	MG TORQUE MCT HI		79
J3-B*	E35	A 284L	MG TORQUE MCT HI		79
J3-C*	E34	A 284K	MG TORQUE MCT LO		78
J3-D*	E36	A 283R	IG TORQUE MCT HI		80
J3-E*	E37	A 283Y	IG TORQUE MCT LO		81
J3-F*	E37	A 283K	IG TORQUE MCT LO		81
J3-G*	E36	A 283L	IG TORQUE MCT HI		80
J3-H*	TB2-43C	A 93	+28 VDC IMU		39

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 4	32 SOCKET CONNECTOR MS3127E18-32SZ (1897122-324)				
J4-C*	J24-A2	A 294L	Z PIP ERROR LO		106
J4-D*			SPARE		
J4-E*	TB3-1B	A 296	SHIELD GRD		7
J4-F*	J21-G1	A 380K	OG ADA		107
J4-G*	J21-H1	A 380Y	MG ADA		108
J4-H*	J21-F1	A 380L	IG ADA		109
J4-J*	J21-G2	A 380R	0 VDC IMU		7
J 5	55 SOCKET CONNECTOR MS3127E22-55SY (1897054-553)				
J5-A	J27-D5	A 715	ACCEL TEMP IND SENSCR RETURN		110
J5-B	TB3-1S	A 579	SHIELD GRD		7
J5-C			SPARE		
J5-D	J2-N	A 288R	ACCEL IND SENSOR HI		46
J5-E	J2-P	A 288L	ACCEL IND SENSOR RET		47
J5-F	J22-M3	A 366	GC FAIL SIGNAL		111
J5-G			SPARE		
J5-H			SPARE		
J5-J			SPARE		
J5-K			SPARE		
J5-L			SPARE		
J5-M	J13-C	A 287	27 VDC RLP HI ISS CNLY		112
J5-N	TB3-18D	A 539	0 VDC IMU		7
J5-P	TB3-18A	A 540	0 VDC IMU		7
J5-R	TB3-18B	A 541	0 VDC IMU		7
J5-S	TB2-8A	A 753R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
J5-T	TB2-8B	A 753L	800 CPS 28V 5 PCT L-90 DEG LO IMU		60
J5-U	E32	A 824	OG TORQUE MOT HI		41
J5-V	E33	A 825	OG TORQUE MCT LO		42
J5-W	E34	A 826	MG TORQUE MOT LO		78

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 5	55 SOCKET CONNECTOR MS3127E22-55SY (1897054-553)				
J5-X	E35	A 827	MG TORQUE MCT HI		79
J5-Y	E36	A 828	IG TORQUE MCT HI		80
J5-Z	E37	A 829	IG TORQUE MCT LO		81
J5-A*	J22-N1	A 361W	800 CPS 28V 5 PCT IMU WHEELS PHASE A		114
J5-B*	J22-H2	A 360W	3200 CPS 2V HI		115
J5-C*	J22-N4	A 367W	25.6 KC HI IMU		116
J5-D*	J22-N2	A 362W	800 CPS 28V 5 PCT L-90 DEG HI IMU		117
J5-E*	J22-A1	A 352W	IMU IG AND Y GYRO ERROR SIG		118
J5-F*	J22-A2	A 350W	IMU MG ERROR SIGNAL		119
J5-G*	J22-B1	A 351W	IMU OG ERROR SIGNAL		120
J5-H*	J22-A5	A 354	X PIP ERROR MONITOR		121
J5-I*	J22-A6	A 355	Y PIP ERROR MONITOR		122
J5-J*	J22-B6	A 356	Z PIP ERROR MONITOR		123
J5-K*	TB2-54D	A 597	+ 28 VDC MDV		124
J5-M*			SPARE		
J5-N*			SPARE		
J5-P*	TB1-11C	A 613R	3200 CPS 2V HI		125
J5-Q*	TB1-12B	A 613L	3200 CPS 2V LO		126
J5-R*	J22-M1	A 365	AGC PWR SUPPLY FAIL SIG HI		127
J5-S*			SPARE		
J5-T*	J22-L4	A 364	SPARE FAIL GATE		128
J5-U*			SPARE		
J5-V*			SPARE		
J5-W*	K2-1	A 723R	AUTO OVRD MODE CMD HI		129
J5-X*	K4-5	A 741	PROP AND BACKUP MODE CMD LO		130
J5-Y*	K6-6	A 743	AUTO OVRD PROP AND BACKUP MODE CM HI		131
J5-Z*	K3-1	A 744	PROP MODE CMD HI		132
J5-AA	J27-C7	A 709	IRIG TEMP BRIDGE AMPL PIN 6		133
J5-BB	J27-F7	A 714	ACCEL BRIDGE AMPL PIN 6		134
J5-CC	K5-5	A 722L	EMERG MODE CMD LO		135
J5-DD	K2-5	A 723L	AUTO OVRD MODE CMD LO		136
J5-EE	K5-1	A 722R	EMERG MODE CMD HI		137

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 5		55 SOCKET CONNECTOR MS3127E22-55SY (1897054-553)			
J5-FF			SPARE		
J5-GG	K1-1	A 720R	TMC AUTO OVRD AND PROP MODE CMD HI		131
J5-HH	K1-5	A 720L	AUTO OVRD AND PROP MODE CMD LO		138
		J 6	10 PIN CONNECTOR 1016118-100		
J6-A1	TB1-36B	A 319E	GYRO RESET PULSE		139
J6-A2	SHLD A319	A 319X	0 VDC IMU		7
J6-B1	TB1-29C	A 315E	PIPA INTERROGATE PULSE		140
J6-B2	SHLD A315	A 315X	0 VDC IMU		7
J6-C1	TB2-29A	A 400E	SHAFT + DELTA THETA CMD		141
J6-C2	SHLD A400	A 400X	SHAFT DELTA THETA CMD COMMON		142
J6-D1	TB2-29B	A 401E	SHAFT - DELTA THETA CMD		143
J6-D2	SHLD A401	A 401X	SHAFT DELTA THETA CMD COMMON		142
J6-E1	TB2-28A	A 397E	TRUNN + DELTA THETA CMD		144
J6-E2	SHLD A397	A 397X	TRUNN DELTA THETA CMD COMMON		145
J6-F1	TB2-28B	A 398E	TRUNN - DELTA THETA CMD		146
J6-F2	SHLD A398	A 398X	TRUNN DELTA THETA CMD COMMON		145
J6-G1	J6-J1	A 292E	CMS 0 VDC SUB-SYSTEM ONLY		147
J6-G2	J6-J2	A 292X	NOT USED		148
J6-H			SPARE		
J6-J1	J6-G1	A 292E	CMS 0 VDC SUB-SYSTEM ONLY		147
J6-J2	J6-G2	A 292X	NOT USED		148
J6-K1	TB5-23	A 625E	STAR PRESENCE HI		149
J6-K2	SHLD A625	A 625X	STAR PRESENCE LO		150

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
		J 7	10 PIN CONNECTOR 1016118-101		
J7-A1	TB1-19D	A 185E	COMPUTER 800 PPS IN PHASE SYNC		151
J7-A2	SHLD A185	A 185X	COMPUTER 800 PPS SYNC RETURN		7
J7-B1	TB1-19B	A 184E	COMPUTER 800 PPS OUT OF PHASE SYNC		152
J7-B2	SHLD A184	A 184X	COMPUTER 800 PPS SYNC RETURN		7
J7-C1	TB1-7B	A 383E	COMPUTER 3200 PPS IN PHASE SYNC		153
J7-C2	SHLD A383	A 383X	COMPUTER 3200 PPS SYNC RET		7
J7-D1	TB1-7A	A 382E	COMPUTER 3200 PPS CUT OF PHASE SYNC		154
J7-D2	SHLD A382	A 382X	COMPUTER 3200 PPS SYNC RET		7
J7-E1	TB1-25A	A 357E	COMPUTER 25.6 KPPS IN PHASE SYNC		155
J7-E2	SHLD A357	A 357X	COMPUTER 25.6 KPPS SYNC RET		7
J7-F1	TB1-25B	A 358E	COMPUTER 25.6 KPPS CUT OF PHASE SYNC		156
J7-F2	SHLD A358	A 358X	COMPUTER 25.6 KPPS SYNC RET		7
J7-G1	TB2-7A	A 704E	TRUN ENCODER + DELTA THETA OUTPUT		157
J7-G2	SHLD A704	A 704X	TRUN ENCODER DELTA THETA OUTPUT COM		158
J7-H1	TB2-5C	A 701E	SHAFT ENCODER - DELTA THETA OUTPUT		159
J7-H2	SHLD A701	A 701X	SHAFT ENCODER DELTA THETA OUTPUT COM		160
J7-J1	TB2-7C	A 705E	TRUN ENCODER - DELTA THETA OUTPUT		161
J7-J2	SHLD A705	A 705X	TRUN ENCODER DELTA THETA OUTPUT COM		158
J7-K1	TB2-5A	A 700E	SHAFT ENCODER + DELTA THETA OUTPUT		162
J7-K2	SHLD A700	A 700X	SHAFT ENCODER DELTA THETA OUTPUT COM		160
		J 8	10 PIN CONNECTOR 1016118-102		
J8-A1	TB1-22B	A 261E	COMPUTER 102.4 KPPS SYNC		163
J8-A2	SHLD A261	A 261X	COMPUTER 102.4 KPPS SYNC RET		164
J8-B1	TB5-17	A 636E	IMU FAIL		165
J8-B2	SHLD A636	A 636X	IMU FAIL RET		7
J8-C1	TB5-11	A 632E	CDU FAIL		166
J8-C2	SHLD A632	A 632X	CDU FAIL RET		7
J8-D1	TB5-5	A 629E	ACCEL FAIL		167

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 8		10 PIN CONNECTOR 1016118-102			
J8-D2	SHLD A629	A 629X	ACCEL FAIL RET		7
J8-E1	TB1-45A	A 42E	+ DELTA VX		168
J8-E2	SHLD A42	A 42X	COMPUTER RETURN		169
J8-F1	TB1-45B	A 43E	- DELTA VX		170
J8-F2	SHLD A43	A 43X	COMPUTER RETURN		169
J8-G1	TB1-45C	A 44E	+ DELTA VY		171
J8-G2	SHLD A44	A 44X	COMPUTER RETURN		169
J8-H1	TB1-47B	A 47E	- DELTA VZ		172
J8-H2	SHLD A47	A 47X	COMPUTER RETURN		169
J8-J1	TB1-45D	A 45E	- DELTA VY		173
J8-J2	SHLD A45	A 45X	COMPUTER RETURN		169
J8-K1	TB1-47A	A 46E	+ DELTA VZ		174
J8-K2	SHLD A46	A 46X	COMPUTER RETURN		169
		J 9	10 PIN CONNECTOR 1016118-103		
J9-A1	TB1-39C	A 6E	IG CDU + DELTA THETA COMMAND		175
J9-A2	SHLD A6	A 6X	IG DAC MDA SIGNAL LO		1
J9-B1	TB1-39D	A 7E	IG CDU - DELTA THETA COMMAND		176
J9-B2	SHLD A7	A 7X	IG DAC MDA SIGNAL LO		1
J9-C1	TB1-41C	A 16E	MG CDU + DELTA THETA COMMAND		177
J9-C2	SHLD A16	A 16X	MG DAC MDA SIGNAL LO		3
J9-D1	TB1-41D	A 17E	MG CDU - DELTA THETA COMMAND		178
J9-D2	SHLD A17	A 17X	MG DAC MDA SIGNAL LO		3
J9-E1	TB1-43C	A 25E	OG CDU + DELTA THETA COMMAND		179
J9-E2	SHLD A25	A 25X	OG DAC MDA SIGNAL LO		5
J9-F1	TB1-43D	A 26E	OG CDU - DELTA THETA COMMAND		180
J9-F2	SHLD A26	A 26X	OG DAC MDA SIGNAL LO		5
J9-G1	TB1-33B	A 298E	- DX GYRO RATE		181
J9-G2	SHLD A298	A 298X	0 VDC IMU		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 9		10 PIN CONNECTOR 1016118-103			
J9-H1	TB1-34A	A 299E	+ DY GYRO RATE		182
J9-H2	SHLD A299	A 299X	0 VDC IMU		7
J9-J1	TB1-33A	A 297E	+ DX GYRO RATE		183
J9-J2	SHLD A297	A 297X	0 VDC IMU		7
J9-K1	TB1-34B	A 300E	- DY GYRO RATE		184
J9-K2	SHLD A300	A 300X	0 VDC IMU		7
		J10	10 PIN CONNECTOR 1016118-104		
J10-A1	TB1-35B	A 302E	- DZ GYRO RATE		185
J10-A2	SHLD A302	A 302X	0 VDC IMU		7
J10-B1	TB1-35A	A 301E	+ DZ GYRO RATE		186
J10-B2	SHLD A301	A 301X	0 VDC IMU		7
J10-C1	TB1-29A	A 316E	PIPA SWITCHING PULSE		187
J10-C2	SHLD A316	A 316X	0 VDC IMU		7
J10-D1	TB1-26B	A 641E	COMPUTER 12.8 KPPS SYNC		188
J10-D2	SHLD A641	A 641X	0 VDC IMU		7
J10-E1	TB1-39A	A 4E	IG ENCODER + DELTA THETA		189
J10-E2	SHLD A4	A 4X	IG DAC MDA SIGNAL LO		1
J10-F1	TB1-39B	A 5E	IG ENCODER - DELTA THETA		190
J10-F2	SHLD A5	A 5X	IG DAC MDA SIGNAL LO		1
J10-G1	TB1-41A	A 14E	MG ENCODER + DELTA THETA		191
J10-G2	SHLD A14	A 14X	MG DAC MDA SIGNAL LO		3
J10-H1	TB1-43B	A 24E	OG ENCODER - DELTA THETA		192
J10-H2	SHLD A24	A 24X	OG DAC MDA SIGNAL LO		5
J10-J1	TB1-41B	A 15E	MG ENCODER - DELTA THETA		193
J10-J2	SHLD A15	A 15X	MG DAC MDA SIGNAL LO		3
J10-K1	TB1-43A	A 23E	OG ENCODER + DELTA THETA		194
J10-K2	SHLD A23	A 23X	OG DAC MDA SIGNAL LO		5

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J11	61 SOCKET CONNECTOR MS3127E24-61SX (1897056-612)			
J11-A			SPARE		
J11-B			SPARE		
J11-C	J22-G3	A 363	G+N ERROR LIGHT (MAIN PANEL)		195
J11-D	TB1-31B	A 339R	Y PIP ERRCR MONITOR		196
J11-E	TB1-31C	A 339L	0 VDC IMU		7
J11-F	TB1-36A	A 32CR	Z PIP ERROR MONITOR		197
J11-G	TB1-37A	A 320L	0 VDC IMU		7
J11-H	J26-B9	A 165Y	SIN AOG 1 X TO CDU		198
J11-J	J26-A8	A 165R	SIN AOG 1 X S2		67
J11-K	J26-A9	A 165L	SIN AOG 1 X S4		66
J11-L	J27-L3	A 752	IMU TEMP LIGHT (MAIN PANEL)		199
J11-M	J27-A4	A 209R	ROLL ERROR BCDY AXIS HI		200
J11-N	J27-B4	A 209L	ROLL ERROR BODY AXIS LO		201
J11-P	J27-C4	A 210R	YAW ERROR BCDY AXIS HI		202
J11-R	J27-C4	A 210L	YAW ERROR BCDY AXIS LO		203
J11-S	J27-C1	A 212R	PITCH ERRCR BODY + BODY OFFSET AXIS HI		204
J11-T	J27-C1	A 212L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74
J11-U	J27-C3	A 214R	YAW ERROR BODY OFFSET AXIS HI		205
J11-V	J27-C3	A 214L	YAW ERROR BCDY OFFSET AXIS LO		72
J11-W	J27-A3	A 211R	ROLL ERROR BODY OFFSET AXIS HI		206
J11-X	J27-B3	A 211L	ROLL ERRCR BODY OFFSET AXIS LO		207
J11-Y	J22-L2	A 598	G + N ERRCR LIGHT HI		208
J11-Z	TB1-31A	A 338R	X PIP ERROR MONITOR		209
J11-A*	TB1-31D	A 338L	0 VDC IMU		7
J11-B*	J1-A*	A 281R	COS AIG 1 X S3		32
J11-C*	J1-B*	A 281L	COS AIG 1 X RET		33
J11-D*	J1-G*	A 279R	SIN AIG 1 X S4		35
J11-E*	J1-F*	A 279L	SIN AIG 1 X S2		34
J11-F*	J26-G1	A 171R	COS AIG 16 X S3		28
J11-G*	J26-G2	A 171L	COS AIG 16 X TO CDU		210
J11-H*	J25-C7	A 53L	SIN AIG 16 X S4		31
J11-I*	J25-F7	A 53R	SIN AIG 16 X TO CDU		211

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J11		61 SOCKET CONNECTOR MS3127E24-61SX (1897056-612)			
J11-J*	J26-R1	A 157R	IG CDU MDA OUTPUT		212
J11-K*	T81-51A	A 157L	0 VDC IMU		7
J11-M*	J26-P1	A 157Y	IG CDU MDA OUTPUT		213
J11-N*	J1-L	A 282R	COS AMG 1 X S3		20
J11-P*	J1-M	A 282L	COS AMG 1 X S1		21
J11-Q*	J1-P	A 280R	SIN AMG 1 X S4		23
J11-R*	J1-N	A 280L	SIN AMG 1 X S2		22
J11-S*	J26-G3	A 173R	COS AMG 16 X S3		16
J11-T*	J26-G4	A 173L	COS AMG 16 X TO CDU		214
J11-U*	J25-F9	A 55L	SIN AMG 16 X S4		19
J11-V*	J25-D9	A 55R	SIN AMG 16 X TO CDU		215
J11-W*	K14-1	A 369	WHEELS DISABLE CMD		216
J11-X*	J26-C9	A 167Y	COS AOG 1 X TO CDU		217
J11-Y*	J26-B8	A 167R	COS AOG 1 X S3		64
J11-Z*	J26-C8	A 167L	COS AOG 1 X S1		65
J11-AA	J26-F7	A 175R	COS AOG 16 X S3		12
J11-BB	J26-F8	A 175L	COS AOG 16 X TO CDU		218
J11-CC	J26-F9	A 169L	SIN AOG 16 X TO CDU		219
J11-DD	J26-D9	A 169R	SIN AOG 16 X S4		15
J11-EE	TB3-3C	A 120R	X GYRO ERROR SIGNAL		61
J11-FF	TB3-4C	A 120L	0 VDC IMU		7
J11-GG	TB3-6C	A 127L	IMU IG AND Y GYRO ERROR SIGNAL		76
J11-HH	TB3-5B	A 127R	0 VDC IMU		7
J11-JJ	TB3-3A	A 121R	Z GYRO ERROR SIGNAL		62
J11-KK	TB3-4D	A 121L	0 VDC IMU		7
J11-LL	TB3-6D	A 126L	IMU MG ERROR SIGNAL		77
J11-MM	TB3-5D	A 126R	0 VDC IMU		7
J11-NN	TB3-6B	A 128L	IMU OG ERROR SIGNAL		63
J11-PP	TB3-5A	A 128R	0 VDC IMU		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J12	61 SOCKET CONNECTOR MS3127E24-61SY (1897056-613)			
J12-A	TB1-11B	A 612R	3200 CPS 2V HI		125
J12-B			SPARE		
J12-C	TB1-12B	A 612L	3200 CPS 2V LO		126
J12-D	J27-B8	A 712	IRIG ZERO DEVIATION CHECK		220
J12-E	J27-C7	A 713	ACCEL ZERO DEVIATION CHECK		221
J12-F	J27-C6	A 748	IMU TEMP CONTROL + 5 DEG GAIN CHECK		222
J12-G	J27-B7	A 749	IMU TEMP CONTROL - 5 DEG GAIN CHECK		223
J12-H	J30-G2	A 264R	+ 20 VDC CONDITIONING		224
J12-J	J30-G1	A 264L	0 VDC CONDITIONING		225
J12-K	TB2-42B	A 818	+28 VDC IMU		39
J12-L			SPARE		
J12-M	TB2-44B	A 272R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J12-N	TB2-44D	A 272L	800 CPS 28V 5 PCT L-90 DEG LO IMU		227
J12-P	J22-P1	A 370R	800 CPS 28V 5 PCT IMU WHL PHASE A		228
J12-R	J22-P2	A 370Y	800 CPS 28V 5 PCT IMU WHL PHASE B		229
J12-S	J22-R1	A 370L	800 CPS 28V 5 PCT IMU WHL LO		230
J12-T	TB1-15A	A 78R	800 CPS 28V 1 PCT HI IMU		10
J12-U	TB1-16A	A 78L	800 CPS 28V 1 PCT LO IMU		231
J12-V	TB1-13B	A 74R	25.6 KC HI IMU		232
J12-W	TB1-14B	A 74L	25.6 KC LO IMU		7
J12-X			SPARE		
J12-Y			SPARE		
J12-Z			SPARE		
J12-A*	K13-14	A 618R	3200 CPS 2V FDBK HI		233
J12-B*	K13-8	A 618L	3000 CPS 2V FDBK LO		234
J12-C*	J22-F3	A 751	0 VDC SPACECRAFT		235
J12-D*	TB2-54C	A 596	+ 28 VDC MDV		124
J12-E*	K13-4	A 608R	DUCO EXC SWITCHING CMD HI		236
J12-F*	K13-11	A 608L	DUCO EXC SWITCHING CMD LO		237
J12-G*	J30-A4	A 251R	IMU PRESSURE MONITOR HI		57
J12-H*	J30-B4	A 251L	IMU PRESSURE MONITOR LO		58
J12-I*	TB1-13A	A 73R	25.6 KC HI IMU		232

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J12		61 SOCKET CONNECTOR MS3127E24-61SY (1897056-613)			
J12-J*	TB1-14A	A 73L	25.6 KC LO IMU		7
J12-K*	J26-R4	A 201W	ZEROING RSVR 800 CPS		238
J12-M*	J25-R6	A 71	+28 VDC CDU NOT LOCK		239
J12-N*	J3-J*	A 816	GIMBAL LOCK SIGNAL		82
J12-P*	J27-P5	A 757	IMU TEMP CONTROL FAIL LIGHT HI		240
J12-Q*	TB2-48B	A 498	+ 28 VDC STBY		241
J12-R*			SPARE		
J12-S*			SPARE		
J12-T*			SPARE		
J12-U*	J21-C6	A 377R	IG TORQUE MCT HI		242
J12-V*	J21-C5	A 377L	IG TORQUE MCT RETURN		243
J12-W*	J21-F6	A 378R	MG TORQUE MCT HI		244
J12-X*	J21-G6	A 378L	MG TORQUE MCT RETURN		245
J12-Y*	J21-H6	A 379R	OG TORQUE MCT HI		246
J12-Z*	J21-H5	A 379L	OG TORQUE MCT RETURN		247
J12-AA	J27-F5	A 716	ACCEL TEMP (TELEM)		248
J12-BB	J27-F4	A 717	IRIG TEMP (TELEM)		249
J12-CC	J27-F2	A 453	TEMP CONTROL SIG LC		7
J12-DD	J27-F3	A 718	HEATER CURRENT (TELEM)		250
J12-EE	J27-F6	A 719	BLOWER CURRENT SENSOR (TELEM)		251
J12-FF	J30-C1	A 258R	+ 2.5 VDC CONDITIONING HI		252
J12-GG	J30-F1	A 258L	+ 2.5 VDC CONDITIONING LO		253
J12-HH	J26-R3	A 158R	MG CDU MDA OUTPUT		254
J12-JJ	TB1-51B	A 158L	0 VDC IMU		7
J12-KK	J26-P3	A 158Y	MG CDU MDA OUTPUT		255
J12-LL	J26-N1	A 159R	OG CDU MDA OUTPUT		256
J12-MM	TB1-51B	A 159L	0 VDC IMU		7
J12-NN	J26-N2	A 159Y	OG CDU MDA OUTPUT		257
J12-PP	T82-41D	A 95	+28 VDC IMU		258

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J15	14 SOCKET CONNECTOR MS3102R28-20P (1896862-200)			
J15-A	TB2-50A	A 517	+ 28 VDC IMU BUS A		303
J15-A	TB2-50H	A 518	+ 28 VDC IMU BUS A		303
J15-B	TB2-50C	A 519	+ 28 VDC IMU BUS A		303
J15-B	TB2-50D	A 520	+ 28 VDC IMU BUS A		303
J15-B	J14-Y	A 521	+ 28 VDC IMU BUS A		303
J15-C	TB2-51A	A 526	+ 28 VDC IMU BUS B		304
J15-C	TB2-51B	A 527	+ 28 VDC IMU BUS B		304
J15-D	TB2-51C	A 528	+ 28 VDC IMU BUS B		304
J15-D	TB2-51D	A 529	+ 28 VDC IMU BUS B		304
J15-D	J14-Z	A 530	+ 28 VDC IMU BUS B		304
J15-E	TB3-18J	A 535	0 VDC IMU		7
J15-F	TB3-18F	A 536	0 VDC IMU		7
J15-G	TB3-1T	A 580	SHIELD GRD		7
J15-H	J30-H2	A 501	+ 28 VDC AGC BUS A		309
J15-H	J30-H2	A 502	+ 28 VDC AGC BUS A		309
J15-H	J14-V*	A 503	+ 28 VDC AGC BUS A		309
J15-J			SPARE		
J15-K	TB2-49A	A 507	+ 28 VDC STBY BUS A		301
J15-K	TB2-49B	A 508	+ 28 VDC STBY BUS A		301
J15-K	J14-W	A 509	+ 28 VDC STBY BUS A		301
J15-L	TB2-49C	A 512	+ 28 VDC STBY BUS B		302
J15-L	TB2-49D	A 513	+ 28 VDC STBY BUS B		302
J15-L	J14-X	A 514	+ 28 VDC STBY BUS B		302
J15-M	J30-N3	A 269R	400 CPS 115 V HI		321
J15-N	J30-M3	A 269L	400 CPS 115 V LO		322
J15-P	J30-H3	A 504	+ 28 VDC AGC BUS B		310
J15-P	J30-H3	A 505	+ 28 VDC AGC BUS B		310
J15-P	J14-W*	A 506	+ 28 VDC AGC BUS B		310

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J16	61 SOCKET CONNECTOR MS3127E24-61P (1897055-610)			
J16-A			SPARE		
J16-B	TB3-1A	A 585	SHIELD GRD		7
J16-C	TB2-19B	A 792R	SCT SHAFT TACH FDBK BUFFERED		323
J16-D	TB2-19D	A 792L	0 VDC OPTICS		7
J16-E	TB2-17A	A 782R	SXT SHAFT MCA INPUT BUFFERED		324
J16-F	TB2-17C	A 782L	0 VDC OPTICS		7
J16-G	TB2-32C	A 247R	SHAFT CDU 16 X ERROR SIG BUFF		325
J16-H	TB2-33B	A 247L	0 VDC OPTICS		7
J16-J	TB2-17B	A 783R	SXT SHAFT TACH FDBK BUFFERED		326
J16-K	TB2-17D	A 783L	0 VDC OPTICS		7
J16-L	TB2-27B	A 393R	TRACKER PRE AMP OUTPUT BUFF HI		327
J16-M	TB2-25D	A 393L	TRACKER PRE AMP OUTPUT BUFF LO		7
J16-N	J30-B8	A 255R	PHOTOMETER PREAMP OUTPUT BUFF HI		328
J16-P	J30-B7	A 255L	0 VDC OPTICS		7
J16-R	TB2-24B	A 387R	TRACKER X DRIVE BUFFERED HI		329
J16-S	TB2-26B	A 387L	TRACKER X DRIVE BUFFERED LO		7
J16-T	TB2-24D	A 390R	TRACKER Y DRIVE BUFFERED HI		330
J16-U	TB2-25B	A 390L	TRACKER Y DRIVE BUFFERED LO		7
J16-V			SPARE		
J16-W			SPARE		
J16-X			SPARE		
J16-Y	J32-X	A 822R	STAR SIMULATOR SIG HI		331
J16-Z	J32-Y	A 822L	STAR SIMULATOR SIG LO		332
J16-A*	TB2-34A	A 248R	SHAFT CDU TACH FDBK SIG BUFF		333
J16-B*	TB2-33B	A 248L	0 VDC OPTICS		7
J16-C*	TB2-19A	A 791R	SCT SHAFT 1 X ERROR SIG BUFFERED		334
J16-D*	TB2-19C	A 791L	0 VDC OPTICS		7
J16-E*	TB2-32A	A 245R	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
J16-F*	TB2-33A	A 245L	0 VDC OPTICS		7
J16-G*	TB2-18B	A 788R	SXT TRUN TACH FDBK BUFFERED		336
J16-H*	TB2-18D	A 788L	0 VDC OPTICS		7
J16-J*	TB2-18A	A 787R	SXT TRUN MDA INPUT BUFFERED		337

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J16		61 SOCKET CONNECTOR MS3127E24-61P (1897055-610)			
J16-K*	TB2-18C	A 787L	0 VDC OPTICS		7
J16-M*	TB2-34C	A 250R	SCT TRUN TACH FDBK BUFF		338
J16-N*	TB2-33D	A 250L	0 VDC OPTICS		7
J16-P*	TB2-32B	A 246R	TRUN CDU TACH FDBK BUFF		339
J16-Q*	TB2-33A	A 246L	0 VDC OPTICS		7
J16-R*	TB2-34B	A 249R	SCT TRUN 1 X ERROR SIG BUFF		340
J16-S*	TB2-33C	A 249L	0 VDC OPTICS		7
J16-T*			SPARE		
J16-U*			SPARE		
J16-V*			SPARE		
J16-W*			SPARE		
J16-X*			SPARE		
J16-Y*			SPARE		
J16-Z*			SPARE		
J16-AA	TB2-47D	A 427	+ 28 VDC OPTICS		341
J16-BB	TB3-17L	A 567	0 VDC OPTICS		7
J16-CC			SPARE		
J16-DD			SPARE		
J16-EE			SPARE		
J16-FF	TB2-2A	A 202R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J16-GG	TB2-3A	A 202L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J16-HH	TB1-20D	A 766R	25.6 KC HI OPTICS		344
J16-JJ	TB1-21D	A 766L	25.6 KC LO OPTICS		7
J16-KK			SPARE		
J16-MM	TB1-53B	A 188R	800 CPS 28V 1 PCT HI OPTICS		345
J16-NN	TB2-1B	A 188L	800 CPS 28V 1 PCT LC OPTICS		346
J16-PP			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J17	61 PIN CONNECTOR MS3127E24-61PW (1897055-611)			
J17-A			SPARE		
J17-B			SPARE		
J17-C			SPARE		
J17-D	TB3-10B	A 665R	400 CPS VAR ILLUM PWR		347
J17-E	TB3-11B	A 665L	400 CPS 6V LO		348
J17-F	TB3-10C	A 666R	400 CPS VAR ILLUM PWR		347
J17-G	TB3-11C	A 666L	400 CPS 6V LO		348
J17-H	TB3-12D	A 659	400 CPS SHIELD GRD		8
J17-J	TB3-8A	A 601R	SXT SHAFT DRIVE ENABLE		349
J17-K	TB3-8B	A 601L	SXT TRUNN DRIVE ENABLE		350
J17-L	TB3-8C	A 604	SCT SHAFT DRIVE DISABLE		351
J17-M			SPARE		
J17-N			SPARE		
J17-P	J28-R1	A 216	TRACKER MODE RELAY CMD		352
J17-R	J28-P3	A 812L	COMPUTER RELAY CMD		353
J17-S	J28-P1	A 812R	ZERO OPTICS MODE CMD		354
J17-T	J17-L	A 820	6V 400 CPS LAMP PWR LO		355
J17-U	J17-T	A 820	6V 400 CPS LAMP PWR LO		355
J17-V	J29-F9	A 228R	TRUN HAND CONTROLLER OUTPUT HI		356
J17-W	J29-F8	A 228L	TRUN HAND CONTROLLER OUTPUT LO		357
J17-X			SPARE		
J17-Y			SPARE		
J17-Z	J30-H4	A 273E	800 CPS 28V 1 PCT HI OPTICS TRK PWR		358
J17-A*			SPARE		
J17-B*	J29-C8	A 237R	SHAFT HAND CONTROLLER OUTPUT HI		359
J17-C*	J29-C7	A 237L	SHAFT HAND CONTROLLER OUTPUT LO		360
J17-D*			SPARE		
J17-E*			SPARE		
J17-F*	J29-C3	A 469R	SCT TRUN TRACKER MODE INPUT HI		361
J17-G*	J29-C2	A 469L	SCT TRUN TRACKER MODE INPUT LO		362
J17-H*			SPARE		
J17-I*			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J17	61 PIN CONNECTOR MS3127E24-61PW (1897055-611)				
J17-J*	J30-F6	A 257R	PHOTOMETER MARK REJECT HI		363
J17-K*	J30-F7	A 257L	PHOTOMETER MARK REJECT LO		364
J17-L*			SPARE		
J17-M*			SPARE		
J17-N*			SPARE		
J17-P*	TB1-53A	A 187R	800 CPS 28V 1 PCT HI OPTICS		345
J17-Q*	TB2-1A	A 187L	800 CPS 28V 1 PCT LC OPTICS		346
J17-R*	J28-P2	A 813	0 DEG OFFSET RELAY CMD		365
J17-S*	J28-R2	A 218	25 DEG OFFSET RELAY CMD		366
J17-T*			SPARE		
J17-U*	J29-P6	A 238	RESOLVER MODE RELAY CMD		367
J17-V*	TB3-17D	A 562	0 VDC OPTICS		7
J17-W*			SPARE		
J17-X*			SPARE		
J17-Y*			SPARE		
J17-Z*			SPARE		
J17-AA	TB2-45A	A 274	+ 28 VDC OPTICS TRK PWR		368
J17-BB	J28-T3	A 219	+ 28 VDC OPTICS DAC PWR		369
J17-CC	TB2-47A	A 590	+ 28 VDC OPTICS		370
J17-DD			SPARE		
J17-EE			SPARE		
J17-FF			SPARE		
J17-GG			SPARE		
J17-HH			SPARE		
J17-JJ			SPARE		
J17-KK			SPARE		
J17-LL			SPARE		
J17-MM	J30-F2	A 260	AUTOMATIC MARK CMD		371
J17-NN			SPARE		
J17-PP			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J18	61 SOCKET CONNECTOR MS3127E24-61S (1897056-610)				
J18-A			SPARE		7
J18-B	TB3-1G	A 577	SHIELD GRD		
J18-C			SPARE		345
J18-D	TB1-53C	A 189R	800 CPS 28V 1 PCT HI OPTICS		346
J18-E	TB2-1C	A 189L	800 CPS 28V 1 PCT LC OPTICS		342
J18-F	TB2-2B	A 203R	800 CPS 28V 5 PCT L-90 HI OPTICS		343
J18-G	TB2-3B	A 203L	800 CPS 28V 5 PCT L-90 LO OPTICS		347
J18-H	TB3-10A	A 667R	400 CPS VAR ILLUM PWR		348
J18-J	TB3-11A	A 667L	400 CPS 6 V LO		344
J18-K	TB1-20B	A 764R	25.6 KC HI OPTICS		7
J18-L	TB1-21B	A 764L	25.6 KC LO OPTICS		372
J18-M	J29-K5	A 230L	SHAFT CDU 1 X RSVR P3		373
J18-N	J29-K4	A 230R	SHAFT CDU 1 X RSVR P1		374
J18-P	J29-G4	A 233L	SHAFT CDU 1 X RSVR P2		375
J18-R	J29-G3	A 233R	SHAFT CDU 1 X RSVR P4		376
J18-S	J29-P4	A 232L	SHAFT CDU 1 X RSVR S3		377
J18-T	J29-P5	A 232Y	SHAFT CDU 1 X RSVR S1		378
J18-U	J29-P3	A 232R	SHAFT CDU 1 X RSVR S2		
J18-V			SPARE		
J18-W			SPARE		
J18-X			SPARE		
J18-Y			SPARE		
J18-Z			SPARE		
J18-A*	J29-C9	A 229L	SHAFT CDU 1/2 X RSVR P3		379
J18-B*	J29-C8	A 229R	SHAFT CDU 1/2 X RSVR P1		380
J18-C*	J32-T	A 290L	SXT SHAFT 1/2 X RSVR S2		381
J18-D*	J32-S	A 290R	SXT SHAFT 1/2 X RSVR S4		382
J18-E*	J28-B1	A 771L	SXT SHAFT 1/2 X RSVR S1		383
J18-F*	J28-A1	A 771R	SXT SHAFT 1/2 X RSVR S3		384
J18-G*	J32-A	A 289L	SXT SHAFT 16 X RSVR S3		385
J18-H*	J32-M	A 289R	SXT SHAFT 16 X RSVR S1		386
J18-I*	TB2-15B	A 773L	SXT SHAFT 16 X RSVR S2		387

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J18	61 SOCKET CONNECTOR MS3127E24-61S (1897056-610)				
J18-J*	TB2-14D	A 773R	SXT SHAFT 16 X RSVR S4		388
J18-K*	J29-B7	A 235R	SHAFT CDU 16 X RSVR S3		389
J18-L*			SPARE		
J18-M*	J29-B8	A 235L	SHAFT CDU 16 X RSVR S2		390
J18-N*	TB2-39C	A 473Y	SHAFT CDU MOT PHASE 1		391
J18-P*	TB2-39A	A 473R	SHAFT CDU MOT PHASE 2		392
J18-Q*	TB2-39B	A 473L	0 VDC OPTICS		7
J18-R*	J27-C9	A 696R	SHAFT CDU ENCODER PHASE 1		393
J18-S*	J27-F9	A 696L	SHAFT CDU ENCODER PHASE 2		394
J18-T*	J27-C9	A 696Y	SHAFT CDU ENCODER COMMON		395
J18-U*	SHLD A696	A 696A	SHAFT CDU ENCODER COMMON		395
J18-V*			SPARE		
J18-W*	J29-A9	A 236E	SHAFT CDU TACH HI		396
J18-X*	SHLD A236	A 236A	SHAFT CDU TACH LO		397
J18-Y*			SPARE		
J18-Z*			SPARE		
J18-AA	SHLD A773	A 773A	SXT SHAFT 16X RSVR S4		388
J18-BB	SHLD A235	A 235A	SHAFT CDU 16X RSVR S3		389
J18-CC			SPARE		
J18-DD			SPARE		
J18-EE			SPARE		
J18-FF			SPARE		
J18-GG			SPARE		
J18-HH			SPARE		
J18-JJ			SPARE		
J18-KK	E11	A 661	400 CPS SHIELD GRD		8
J18-LL			SPARE		
J18-MM			SPARE		
J18-NN			SPARE		
J18-PP			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J19	61 SOCKET CONNECTOR MS3127E24-61SW (1897056-611)				
J19-A			SPARE		
J19-B	TB3-1C	A 578	SHIELD GRD		7
J19-C			SPARE		
J19-D			SPARE		
J19-D	TB1-53A	A 190R	800 CPS 28V 1 PCT HI OPTICS		345
J19-E	TB2-1A	A 190L	800 CPS 28V 1 PCT LC OPTICS		346
J19-F	TB2-2C	A 204R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J19-G	TB2-3C	A 204L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J19-H	TB3-10A	A 668R	400 CPS VAR ILLUM PWR		347
J19-J	TB3-11A	A 668L	400 CPS 6V LO		348
J19-K	TB1-20C	A 765R	25.6 KC HI OPTICS		344
J19-L	TB1-21C	A 765L	25.6 KC LO OPTICS		7
J19-M	J29-C5	A 222R	TRUN CDU 1/4 X RSVR P2		398
J19-N	J29-C6	A 222L	TRUN CDU 1/4 X RSVR P3		399
J19-P	J28-F3	A 811L	TRUN CDU 1/4 X RSVR S3		400
J19-R	J28-F2	A 811R	TRUN CDU 1/4 X RSVR S1		401
J19-S	J28-F1	A 809L	TRUN CDU 1/4 X RSVR S2		402
J19-T	J28-C1	A 809R	TRUN CDU 1/4 X RSVR S4		403
J19-U	J29-P2	A 225R	TRUN CDU 1/2 X RSVR P2		404
J19-V	J29-P1	A 225L	TRUN CDU 1/2 X RSVR P3		405
J19-W	J29-K1	A 224R	TRUN CDU 1/2 X RSVR S2		406
J19-X	J29-K2	A 224L	TRUN CDU 1/2 X RSVR S4		407
J19-Y	J29-G1	A 223E	TRUN CDU 1/2 X RSVR S1		408
J19-Z	SHLD A223	A 223A	TRUN CDU 1/2 X RSVR S3		409
J19-A*	TB2-38C	A 470Y	TRUN CDU MOT PHASE 1		410
J19-B*	TB2-38A	A 470R	TRUN CDU MOT PHASE 2		411
J19-C*	TB2-38B	A 470L	0 VDC OPTICS		7
J19-D*	J27-A6	A 697R	TRUN CDU ENCODER PHASE 1		412
J19-E*	J27-A8	A 697L	TRUN CDU ENCODER PHASE 2		413
J19-F*	J27-A7	A 697Y	TRUN CDU ENCODER COMMON		414
J19-G*	SHLD A697	A 697A	TRUNNION CDU ENCODER COMMON		414
J19-H*			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J19	61 SOCKET CONNECTOR MS3127E24-61SW (1897056-611)				
J19-I*			SPARE		
J19-J*			SPARE		
J19-K*			SPARE		
J19-M*	J32-H*	A 291L	SXT TRUN 64 X RSVR S3		415
J19-N*	J32-G*	A 291R	SXT TRUN 64 X RSVR S1		416
J19-P*	TB2-20D	A 794R	SXT TRUN 64 X RSVR S2		417
J19-Q*	TB2-21B	A 794L	SXT TRUN 64 X RSVR S4		418
J19-R*	J29-B4	A 226L	TRUN CDU 16 X RSVR S3		419
J19-S*	J29-B5	A 226R	TRUN CDU 16 X RSVR S2		420
J19-T*			SPARE		
J19-U*			SPARE		
J19-V*			SPARE		
J19-W*	J29-A6	A 227	TRUN CDU TACH HI		421
J19-X*	SHLD A227	A 227A	TRUNNION CDU TACH LO		422
J19-Y*			SPARE		
J19-Z*			SPARE		
J19-AA			SPARE		
J19-BB			SPARE		
J19-CC			SPARE		
J19-DD	SHLD A794	A 794B	SXT TRUNNION 64X RSVR S2		417
J19-EE	SHLD A226	A 226A	TRUNNION CDU 16X RSVR S3		419
J19-FF			SPARE		
J19-KK	E11	A 662	400 CPS SHIELD GRD		8
J19-GG			SPARE		
J19-HH			SPARE		
J19-JJ			SPARE		
J19-LL			SPARE		
J19-MM			SPARE		
J19-NN			SPARE		
J19-PP			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J20	14 PIN CONNECTOR MS3102R28-20PW (1896862-201)				
J20-A	TB2-52A	A 546	+ 28 VDC OPTICS BUS A		
J20-A	TB2-52B	A 547	+ 28 VDC OPTICS BUS A		423
J20-B	TB2-52C	A 548	+ 28 VDC OPTICS BUS A		423
J20-B	TB2-52D	A 549	+ 28 VDC OPTICS BUS A		423
J20-B	J20-H	A 550	+ 28 VDC OPTICS BUS A		423
J20-C	TB2-53A	A 554	+ 28 VDC OPTICS BUS B		423
J20-C	TB2-53B	A 555	+ 28 VDC OPTICS BUS B		424
J20-D	TB2-53C	A 556	+ 28 VDC OPTICS BUS B		424
J20-D	TB2-53D	A 557	+ 28 VDC OPTICS BUS B		424
J20-D	J20-F	A 558	+ 28 VDC OPTICS BUS B		424
J20-E	TB3-17G	A 563	0 VDC OPTICS		424
J20-F	J20-C	A 558	+ 28 VDC OPTICS BUS B		7
J20-G	TB3-1K	A 581	SHIELD GRD		424
J20-H	J20-B	A 550	+ 28 VDC OPTICS BUS A		7
J20-J	TB3-17W	A 564	0 VDC OPTICS		423
J20-K	TB3-1M	A 582	SHIELD GRD		7
J20-L	J20-M	A 293	27 VDC RLP CSS ONLY		7
J20-M	J20-L	A 293	27 VDC RLP CSS ONLY		425
J20-P			SPARE		425
J21	84 SOCKET CONNECTOR 1902080-001				
J21-A1	TB1-2B	A 134R	IG CDU 1 X ERROR SIGNAL		276
J21-A2	TB1-3A	A 141R	MG CDU 1 X ERROR SIGNAL		280
J21-A3	TB1-4A	A 150R	OG CDU 1 X ERROR SIGNAL		287
J21-A4			SPARE		
J21-A5	J13-H*	A 376L	IMU MG ERROR SIGNAL		273
J21-A6	J13-J*	A 376Y	IMU OG ERROR SIGNAL		274
J21-B1	TB1-2C	A 134L	IG CDU ERROR SIGNAL RETURN		69
J21-B1	J3-J	A 135R	IG CDU ERROR SIGNAL RETURN		69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J21	84 SOCKET CONNECTOR 1902080-001				
J21-B2	TB1-3C	A 141L	MG CDU ERROR SIGNAL RETURN		70
J21-B2	J3-K	A 142R	MG CDU ERROR SIGNAL RETURN		70
J21-B3	TB1-4C	A 150L	OG CDU ERROR SIGNAL RETURN		286
J21-B3	J27-B1	A 151R	OG CDU ERROR SIGNAL RETURN		286
J21-B4			SPARE		
J21-B5	J13-K*	A 376K	IMU GIMBAL AND GYRO ERROR SIG LO		272
J21-B6	J13-D*	A 376R	IMU IG AND Y GYRO ERROR SIG		271
J21-C1	J3-H	A 135L	IG CDU ATTITUDE STEERING ERRCR		68
J21-C2	J3-L	A 142L	MG CDU ATTITUDE STEERING ERRCR		71
J21-C3	J27-A1	A 151L	OG CDU ATTITUDE STEERING ERRCR		426
J21-C4			SPARE		
J21-C5			SPARE		
J21-C6			SPARE		
J21-D1			SPARE		
J21-D2			SPARE		
J21-D3			SPARE		
J21-D4			SPARE		
J21-D5	J12-V*	A 377L	IG TORQUE MCT RETURN		243
J21-D6	J12-U*	A 377R	IG TORQUE MCT HI		242
J21-F1	J4-H*	A 380L	IG ADA		109
J21-F2			SPARE		
J21-F3	K13-13	A 619R	3200 CPS 2V FDBK HI		268
J21-F3	J13-U	A 620R	3200 CPS 2V FDBK HI		268
J21-F4			SPARE		
J21-F5			SPARE		
J21-F6	J12-W*	A 378R	MG TORQUE MCT HI		244
J21-G1	J4-F*	A 380K	OG ADA		107
J21-G2	J4-J*	A 380R	0 VDC IMU		7
J21-G2	TB1-6A	A 381	0 VDC IMU		7
J21-G3	K13-9	A 619L	3200 CPS 2V FDBK LO		269
J21-G3	J13-V	A 620L	3200 CPS 2V FDBK LO		269
J21-G4			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J21	84 SOCKET CONNECTOR 1902080-001				
J21-G5			SPARE		
J21-G6	J12-X*	A 378L	MG TORQUE MCT RETURN		245
J21-H1	J4-G*	A 380Y	MG ADA		108
J21-H2			SPARE		
J21-H3			SPARE		
J21-H4			SPARE		
J21-H5	J12-Z*	A 379L	OG TORQUE MCT RETURN		247
J21-H6	J12-Y*	A 379R	OG TORQUE MCT HI		246
J21-K1			SPARE		
J21-K2			SPARE		
J21-K3			SPARE		
J21-K4			SPARE		
J21-K5			SPARE		
J21-K6			SPARE		
J21-L1	TB1-11A	A 610R	3200 CPS 2V HI		125
J21-L2	TB1-12C	A 610Y	3200 CPS 2V LO		126
J21-L3	J14-CC	A 373	COARSE ALIGN RELAY CONTROL		314
J21-L4	J22-K3	A 56	STRUCTURE GROUND		7
J21-L5			SPARE		
J21-L6	TB1-7A	A 384R	COMPUTER 3200 PPS OUT OF PHASE SYNC		154
J21-M1	TB1-11B	A 610L	3200 CPS 2V HI		125
J21-M2	TB1-12D	A 610K	3200 CPS 2V LO		126
J21-M3			SPARE		
J21-M4			SPARE		
J21-M5	TB1-6B	A 384L	COMPUTER 3200 PPS SYNC RET		7
J21-M6	TB1-7B	A 384Y	COMPUTER 3200 PPS IN PHASE SYNC		153
J21-N1	TB2-11C	A 455Y	3200 CPS 20 V CT		7
J21-N2	TB2-11B	A 455L	3200 CPS 20 V LO		427
J21-N3	TB1-26A	A 639	COMPUTER 12.8 KPPS SYNC		188
J21-N4	TB1-16B	A 83L	800 CPS 28V 1 PCT LC IMU		231
J21-N5	TB1-15B	A 83R	800 CPS 28V 1 PCT HI IMU		10
J21-N6	TB1-5A	A 333	- 28 VDC		40

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J21	84 SOCKET CONNECTOR 1902080-001				
J21-N6	TB1-5C	A 334	- 28 VDC		40
J21-P1	TB2-11A	A 455R	3200 CPS 20 V HI		428
J21-P2	TB1-8B	A 438	0 VDC IMU		7
J21-P3	J21-R3	A 447	0 VDC IMU		7
J21-P4	J21-P5	A 435	0 VDC IMU		7
J21-P4	J21-R4	A 436	0 VDC IMU		7
J21-P5	J21-P4	A 435	0 VDC IMU		7
J21-P6	TB1-9A	A 444	0 VDC IMU		7
J21-R1	J21-R2	A 442	0 VDC IMU		7
J21-R1	TB1-9D	A 443	0 VDC IMU		7
J21-R2	J21-R1	A 442	0 VDC IMU		7
J21-R3	J21-P3	A 447	0 VDC IMU		7
J21-R3	TB1-10A	A 448	0 VDC IMU		7
J21-R4	J21-P4	A 436	0 VDC IMU		7
J21-R4	TB1-8C	A 437	0 VDC IMU		7
J21-R5	TB1-10B	A 449	0 VDC IMU		7
J21-R6	TB1-10D	A 450	0 VDC IMU		7
J21-S1	TB1-1A	A 98	+28 VDC IMU		258
J21-S2	TB1-1B	A 99	+28 VDC IMU		258
J21-S3	J27-R1	A 759	+28 VDC STBY TO 3200 CPS PWR SUPPLY		429
J21-S4	TB1-1C	A 100	+28 VDC IMU		39
J21-S5	TB1-1D	A 101	+28 VDC IMU		39
J21-S6	TB1-8A	A 439	0 VDC IMU		7
	J22 84 SOCKET CONNECTOR 1902080-002				
J22-A1	J5-E*	A 352W	IMU IG AND Y GYRO ERROR SIG		118
J22-A2	J5-F*	A 350W	IMU MG ERROR SIGNAL		119
J22-A3			SPARE		
J22-A4			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J22	84 SOCKET CONNECTOR 1902080-002				
J22-A5	J5-H*	A 354	X PIP ERROR MONITOR		121
J22-A6	J5-I*	A 355	Y PIP ERROR MONITOR		122
J22-B1	J5-G*	A 351W	IMU OG ERROR SIGNAL		120
J22-B2	TB3-18T	A 353	0 VDC IMU		7
J22-B3			SPARE		
J22-B4			SPARE		
J22-B5	TB3-18A	A 657	0 VDC IMU		7
J22-B6	J5-J*	A 356	Z PIP ERROR MONITOR		123
J22-C1			SPARE		
J22-C2			SPARE		
J22-C3			SPARE		
J22-C4			SPARE		
J22-C5			SPARE		
J22-C6			SPARE		
J22-D1	TB1-19A	A 186R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
J22-D2	TB1-19C	A 186Y	COMPUTER 800 PPS IN PHASE SYNC		151
J22-D3			SPARE		
J22-D4	TB5-2	A 628R	ACCEL FAIL		430
J22-D5	TB5-8	A 631R	CDU FAIL		431
J22-D6	TB5-14	A 635R	IMU FAIL		432
J22-F1	TB1-18A	A 186L	COMPUTER 800 PPS SYNC RETURN		7
J22-F2	TB1-25C	A 359L	COMPUTER 25.6 KPPS SYNC RET		7
J22-F3	J27-M3	A 750	0 VDC SPACECRAFT		235
J22-F3	J12-C*	A 751	0 VDC SPACECRAFT		235
J22-F4	TB5-1	A 628L	ACCEL FAIL RET.		433
J22-F5	TB5-7	A 631L	CDU FAIL RET.		434
J22-F6	TB5-13	A 635L	IMU FAIL RET.		435
J22-G1	TB1-25A	A 359R	COMPUTER 25.6 KPPS IN PHASE SYNC		155
J22-G2	TB1-25B	A 359Y	COMPUTER 25.6 KPPS OUT OF PHASE SYNC		156
J22-G3	J11-C	A 363	G+N ERROR LIGHT (MAIN PANEL)		195
J22-G4	J30-M6	A 270	+ 28VDC IMU FOR 800 CPS 5 PCT MTR		436
J22-G5	TB3-18C	A 658	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J22	84 SOCKET CONNECTOR 1902080-002				
J22-G6	J26-N3	A 152W	CG CDU FAILURE INDICATION		437
J22-H1	TB1-22C	A 262L	COMPUTER 102.4 KPPS SYNC RET		164
J22-H2	J5-B*	A 360W	3200 CPS 2V HI		115
J22-H3			SPARE		
J22-H4	TB2-44A	A 268R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J22-H5	J26-M2	A 136W	IG CDU FAILURE INDICATION		438
J22-H6	J26-M3	A 143W	MG CDU FAILURE INDICATION		439
J22-K1	TB1-22A	A 262R	COMPUTER 102.4 KPPS SYNC		163
J22-K2	TB1-12D	A 621	3200 CPS 2V LO		126
J22-K3	J21-L4	A 56	STRUCTURE GROUND		7
J22-K3	J23-C6	A 57	STRUCTURE GROUND		7
J22-K4	TB2-44C	A 268L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J22-K5			SPARE		
J22-K6	TB1-24C	A 329K	+ 12,32,120 VDC GYRC RET		440
J22-L1	TB2-54A	A 594	+ 28 VDC MDV		124
J22-L2	J11-Y	A 598	G + N ERROR LIGHT HI		208
J22-L3			SPARE		
J22-L4	J5-T*	A 364	SPARE FAIL GATE		128
J22-L5			SPARE		
J22-L6	TB1-24A	A 329Y	+ 120 VDC GYRO		441
J22-M1	J5-R*	A 365	AGC PWR SUPPLY FAIL SIG HI		127
J22-M2			SPARE		
J22-M3	J5-F	A 366	GC FAIL SIGNAL		111
J22-M4			SPARE		
J22-M5	TB1-23C	A 329L	+ 32 VDC GYRO		442
J22-M6	TB1-23A	A 329R	+ 12 VDC GYRO		443
J22-N1	J5-A*	A 361W	800 CPS 28V 5 PCT IMU WHEELS PHASE A		114
J22-N2	J5-D*	A 362W	800 CPS 28V 5 PCT L-90 DEG HI IMU		117
J22-N3	TB1-15A	A 77R	800 CPS 28V 1 PCT HI IMU		10
J22-N4	J5-C*	A 367W	25.6 KC HI IMU		116
J22-N5	TB1-13A	A 72R	25.6 KC HI IMU		232
J22-N6	J22-R6	A 599	25.6 KC LO OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J22	84 SOCKET CONNECTOR 1902080-002				
J22-N6	TB1-21B	A 762L	25.6 KC LO OPTICS		7
J22-P1	J12-P	A 370R	800 CPS 28V 5 PCT IMU WHL PHASE A		228
J22-P1	K14-10	A 371R	800 CPS 28V 5 PCT IMU WHL PHASE A		228
J22-P2	J12-R	A 370Y	800 CPS 28V 5 PCT IMU WHL PHASE B		229
J22-P2	K14-7	A 371Y	800 CPS 28V 5 PCT IMU WHL PHASE B		229
J22-P3	TB1-16A	A 77L	800 CPS 28V 1 PCT LC IMU		231
J22-P4	TB1-26A	A 640	COMPUTER 12.8 KPPS SYNC		188
J22-P5	TB1-14A	A 72L	25.6 KC LO IMU		7
J22-P6	TB1-20B	A 762R	25.6 KC HI OPTICS		344
J22-R1	J12-S	A 370L	800 CPS 28V 5 PCT IMU WHL LO		230
J22-R1	K14-4	A 371L	800 CPS 28V 5 PCT IMU WHL LO		230
J22-R2	TB1-28B	A 643	0 VDC IMU		7
J22-R3	TB1-28C	A 644	0 VDC IMU		7
J22-R3	J22-R4	A 650	0 VDC IMU		7
J22-R4	J22-R3	A 650	0 VDC IMU		7
J22-R4	TB1-27B	A 653	0 VDC IMU		7
J22-R5	TB1-27C	A 654	0 VDC IMU		7
J22-R6	J22-N6	A 599	25.6 KC LC OPTICS		7
J22-R6	TB3-17X	A 600	0 VDC OPTICS		7
J22-S1	TB1-17B	A 106	+28 VDC IMU		258
J22-S2	TB1-17C	A 107	+28 VDC IMU		258
J22-S3	TB1-17A	A 108	+28 VDC IMU		258
J22-S4	TB1-17D	A 109	+28 VDC IMU		258
J22-S5	TB2-42B	A 110	+28 VDC IMU		39
J22-S6	TB2-47B	A 589	+28 VDC OPTICS		370

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J23	84 SOCKET CONNECTOR 1902080-003			
J23-A1	J4-X	A 335R	X PIP ERROR HI		101
J23-A2			SPARE		
J23-A3	J4-Z	A 336R	Y PIP ERROR HI		103
J23-A4			SPARE		
J23-A5			SPARE		
J23-A6	J24-A6	A 312	X GYRO DC DIFF AMPL OUTPUT		444
J23-B1	J4-Y	A 335L	X PIP ERROR LO		102
J23-B2			SPARE		
J23-B3	J4-A*	A 336L	Y PIP ERROR LO		104
J23-B4			SPARE		
J23-B5			SPARE		
J23-B6			SPARE		
J23-C1			SPARE		
J23-C2			SPARE		
J23-C3			SPARE		
J23-C4			SPARE		
J23-C5			SPARE		
J23-C6	J22-K3	A 57	STRUCTURE GROUND		7
J23-C6	J24-H5	A 58	STRUCTURE GROUND		7
J23-D1	J25-L4	A 36W	PX		445
J23-D2	TB1-31A	A 337R	X PIP ERROR MONITOR		209
J23-D3	J25-L3	A 38W	PY		446
J23-D4			SPARE		
J23-D5			SPARE		
J23-D6	J4-D	A 349R	X GYRO TORQUE +		86
J23-F1	J25-M4	A 37W	NX		447
J23-F2	TB1-31B	A 337L	Y PIP ERROR MONITOR		196
J23-F3	J25-M3	A 39W	NY		448
J23-F4			SPARE		
J23-F5			SPARE		
J23-F6	J4-E	A 349L	X GYRO TORQUE RET		87
J23-G1			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J23		84 SOCKET CONNECTOR 1902080-003			
J23-G2			SPARE		
J23-G3			SPARE		
J23-G4			SPARE		
J23-G5			SPARE		
J23-G6	J4-F	A 349Y	X GYRO TORQUE -		88
J23-H1	J4-U	A 345R	X PIP TORQUE +		98
J23-H2			SPARE		
J23-H3			SPARE		
J23-H4			SPARE		
J23-H5			SPARE		
J23-H6	J24-G1	A 310	X GYRO CAL DUMMY		449
J23-K1	J4-V	A 345L	X PIP TORQUE RET		99
J23-K2			SPARE		
J23-K3			SPARE		
J23-K4			SPARE		
J23-K5			SPARE		
J23-K6	J24-H1	A 311R	X GYRO TERNARY CUR SWITCH TORQUE +		450
J23-L1	J4-W	A 345Y	X PIP TORQUE -		100
J23-L2			SPARE		
J23-L3	J4-N	A 346R	Y PIP TORQUE +		95
J23-L4			SPARE		
J23-L5			SPARE		
J23-L6	J24-K1	A 311L	X GYRO TERNARY CUR SWITCH TORQUE -		451
J23-M1			SPARE		
J23-M2			SPARE		
J23-M3	J4-P	A 346L	Y PIP TORQUE RET		96
J23-M4			SPARE		
J23-M5			SPARE		
J23-M6			SPARE		
J23-N1			SPARE		
J23-N2			SPARE		
J23-N3	J4-R	A 346Y	Y PIP TORQUE -		97

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J23		84 SOCKET CONNECTOR 1902080-003			
J23-N4			SPARE		
J23-N5	TB1-29C	A 317	PIPA INTERRCGATE PULSE		140
J23-N6	TB1-29A	A 318	PIPA SWITCHING PULSE		187
J23-P1			SPARE		
J23-P2			SPARE		
J23-P3			SPARE		
J23-P4			SPARE		
J23-P5			SPARE		
J23-P6	TB1-5B	A 331	- 28 VDC		40
J23-R1	TB1-24D	A 328Y	+ 12,32,120 VDC GYRO RET		440
J23-R2	TB2-10B	A 768Y	+ 32, +120 VDC RET PIP		452
J23-R3			SPARE		
J23-R4			SPARE		
J23-R5			SPARE		
J23-R6	TB1-32C	A 342	0 VDC IMU		7
J23-S1	TB1-24B	A 328L	+ 120 VDC GYRO		441
J23-S2	TB2-9D	A 768L	+ 120 VDC PIP		453
J23-S3	TB1-23D	A 328R	+ 32 VDC GYRO		442
J23-S4	TB2-9B	A 768R	+ 32 VDC PIP		454
J23-S5			SPARE		
J23-S6	TB2-43D	A 111	+ 28 VDC IMU		39
	J24	84 SOCKET CONNECTOR 1902080-004			
J24-A1	J4-B*	A 294R	Z PIP ERROR HI		105
J24-A2	J4-C*	A 294L	Z PIP ERROR LO		106
J24-A3			SPARE		
J24-A4			SPARE		
J24-A5			SPARE		
J24-A6	J23-A6	A 312	X GYRO DC DIFF AMPL OUTPUT		444

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J24		84 SOCKET CONNECTOR 1902080-004			
J24-B1			SPARE		
J24-B2			SPARE		
J24-B3			SPARE		
J24-B4			SPARE		
J24-B5			SPARE		
J24-B6			SPARE		
J24-C1			SPARE		
J24-C2			SPARE		
J24-C3			SPARE		
J24-C4			SPARE		
J24-C5			SPARE		
J24-C6			SPARE		
J24-D1	TB1-33A	A 305R	+ DX GYRO RATE		183
J24-D2	TB1-33B	A 305L	- DX GYRO RATE		181
J24-D3	TB1-34A	A 306R	+ DY GYRO RATE		182
J24-D4	TB1-34B	A 306L	- DY GYRO RATE		184
J24-D5	TB1-35A	A 307R	+ DZ GYRO RATE		186
J24-D6	TB1-35B	A 307L	- DZ GYRO RATE		185
J24-F1			SPARE		
J24-F2			SPARE		
J24-F3			SPARE		
J24-F4			SPARE		
J24-F5			SPARE		
J24-F6	J25-L2	A 40W	PZ		455
J24-G1	J23-H6	A 310	X GYRO CAL DUMMY		449
J24-G2			SPARE		
J24-G3			SPARE		
J24-G4			SPARE		
J24-G5			SPARE		
J24-G6	J25-M2	A 41W	NZ		456
J24-H1	J23-K6	A 311R	X GYRO TERNARY CURR SWITCH TCRQUE +		450
J24-H2			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J24	84 SOCKET CONNECTOR 1902080-004				
J24-H3	TB1-29D	A 314	PIPA INTERROGATE PULSE		140
J24-H4			SPARE		
J24-H5	J23-C6	A 58	STRUCTURE GROUND		7
J24-H5	J25-K3	A 59	STRUCTURE GROUND		7
J24-H6	TB1-36A	A 321	Z PIP ERROR MONITOR		197
J24-K1	J23-L6	A 311L	X GYRO TERNARY CURR SWITCH TORQUE -		451
J24-K2			SPARE		
J24-K3	TB1-29B	A 313	PIPA SWITCHING PULSE		187
J24-K4	TB1-36B	A 322	GYRO RESET PULSE		139
J24-K5			SPARE		
J24-K6			SPARE		
J24-L1			SPARE		
J24-L2			SPARE		
J24-L3			SPARE		
J24-L4			SPARE		
J24-L5			SPARE		
J24-L6	J4-A	A 309R	Z GYRO TORQUE +		83
J24-M1	J4-G	A 308R	Y GYRO TORQUE +		89
J24-M2	J4-J	A 308Y	Y GYRO TORQUE -		91
J24-M3	J4-H	A 308L	Y GYRO TORQUE RETURN		90
J24-M4			SPARE		
J24-M5			SPARE		
J24-M6	J4-C	A 309Y	Z GYRO TORQUE -		85
J24-N1			SPARE		
J24-N2			SPARE		
J24-N3			SPARE		
J24-N4			SPARE		
J24-N5			SPARE		
J24-N6	J4-B	A 309L	Z GYRO TORQUE RETURN		84
J24-P1	J4-K	A 295R	Z PIP TORQUE +		92
J24-P2	J4-M	A 295Y	Z PIP TORQUE -		94
J24-P3	J4-L	A 295L	Z PIP TORQUE RETURN		93

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J24	84 SOCKET CONNECTOR 1902080-004				
J24-P4			SPARE		
J24-P5			SPARE		
J24-P6	TB1-5B	A 330	- 28 VDC		40
J24-R1	TB2-10A	A 769Y	+ 32, +120 VDC RET PIP		452
J24-R2	TB1-24C	A 327K	+ 12,32,120 VDC GYRO RET		440
J24-R3			SPARE		
J24-R4			SPARE		
J24-R5			SPARE		
J24-R6	TB1-37B	A 323	0 VDC IMU		7
J24-S1	TB2-9C	A 769L	+ 120 VDC PIP		453
J24-S2	TB1-24A	A 327Y	+ 120 VDC GYRO		441
J24-S3	TB1-23A	A 327R	+ 12 VDC GYRO		443
J24-S4	TB2-9A	A 769R	+ 32 VDC PIP		454
J24-S5	TB1-23C	A 327L	+ 32 VDC GYRO		442
J24-S6	TB2-42A	A 112	+ 28 VDC IMU		39
J25	105 SOCKET CONNECTOR 1902080-006				
J25-A1	TB3-3B	A 119W	Z GYRO ERROR SIGNAL		62
J25-A2			SPARE		
J25-A3	J14-Z*	A 70	MANUAL CDU MODE IND TO AGC		311
J25-A4	E2	A 11L	IG DAC MDA SIGNAL HI		2
J25-A5	TB1-40A	A 10	IG DAC MDA SIGNAL LO		1
J25-A5	E1	A 11R	IG DAC MDA SIGNAL LO		1
J25-A6	E4	A 20L	MG DAC MDA SIGNAL HI		4
J25-A7	TB1-42A	A 19	MG DAC MDA SIGNAL LO		3
J25-A7	E3	A 20R	MG DAC MDA SIGNAL LO		3
J25-A8	E6	A 31L	OG DAC MDA SIGNAL HI		6
J25-A9	TB1-44A	A 30	OG DAC MDA SIGNAL LO		5
J25-A9	E5	A 31R	OG DAC MDA SIGNAL LO		5

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-B1	TB3-3D	A 117W	X GYRO ERROR SIGNAL		61
J25-B2			SPARE		
J25-B3	J14-J*	A 68	AGC COMMON		9
J25-B3	E31	A 69	AGC COMMON		9
J25-B4	TB1-39A	A 8R	IG ENCODER + DELTA THETA		189
J25-B5	TB1-39C	A 9R	IG CDU + DELTA THETA COMMAND		175
J25-B6	TB1-41A	A 18R	MG ENCODER + DELTA THETA		191
J25-B7	TB1-41C	A 28R	MG CDU + DELTA THETA COMMAND		177
J25-B8	TB1-43A	A 27R	OG ENCODER + DELTA THETA		194
J25-B9	TB1-43C	A 29R	OG CDU + DELTA THETA COMMAND		179
J25-C1	SHLD A1	A 1B	IG CDU ENCODER COMMON		259
J25-C1	J13-M	A 1Y	IG CDU ENCODER COMMON		259
J25-C2	J13-K	A 1R	IG CDU ENCODER PHASE 1		263
J25-C3	J13-P	A 3L	OG CDU ENCODER PHASE 2		266
J25-C4	TB1-39B	A 8L	IG ENCODER - DELTA THETA		190
J25-C5	TB1-39D	A 9L	IG CDU - DELTA THETA COMMAND		176
J25-C6	TB1-41B	A 18L	MG ENCODER - DELTA THETA		193
J25-C7	TB1-41D	A 28L	MG CDU - DELTA THETA COMMAND		178
J25-C8	TB1-43B	A 27L	OG ENCODER - DELTA THETA		192
J25-C9	TB1-43D	A 29L	OG CDU - DELTA THETA COMMAND		180
J25-D1	J13-L	A 1L	IG CDU ENCODER PHASE 2		264
J25-D2	J13-H	A 2L	MG CDU ENCODER PHASE 2		261
J25-D3	SHLD A3	A 3B	OG CDU ENCODER COMMON		267
J25-D3	J13-R	A 3Y	OG CDU ENCODER COMMON		267
J25-D4	J13-N	A 3R	OG CDU ENCODER PHASE 1		265
J25-D5			SPARE		
J25-D6			SPARE		
J25-D7	J1-Z	A 52L	SIN AIG 16 X S4		31
J25-D7	J11-H*	A 53L	SIN AIG 16 X S4		31
J25-D8	J1-Y	A 52R	SIN AIG 16 X S2		30
J25-D9	J11-V*	A 55R	SIN AMG 16 X TO CDU		215
J25-F1	J13-G	A 2R	MG CDU ENCODER PHASE 1		260

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-F2	SHLD A2	A 2B	MG CDU ENCODER COMMON		262
J25-F2	J13-J	A 2Y	MG CDU ENCODER COMMON		262
J25-F3			SPARE		
J25-F4			SPARE		
J25-F5			SPARE		
J25-F6			SPARE		
J25-F7	J11-I*	A 53R	SIN AIG 16 X TO CDU		211
J25-F8	J1-J	A 54R	SIN AMG 16 X S2		18
J25-F9	J1-K	A 54L	SIN AMG 16 X S4		19
J25-F9	J11-U*	A 55L	SIN AMG 16 X S4		19
J25-G1			SPARE		
J25-G2			SPARE		
J25-G3			SPARE		
J25-G4			SPARE		
J25-G5			SPARE		
J25-G6			SPARE		
J25-H1			SPARE		
J25-H2			SPARE		
J25-H3			SPARE		
J25-H4	J14-BB	A 34	FINE ALIGN RELAY CONTROL		313
J25-H4	J26-L1	A 35	FINE ALIGN RELAY CONTROL		313
J25-H5			SPARE		
J25-H6			SPARE		
J25-K1			SPARE		
J25-K2			SPARE		
J25-K3	J24-H5	A 59	STRUCTURE GROUND		7
J25-K3	TB3-2V	A 60	STRUCTURE GROUND		7
J25-K4	TB1-47B	A 50L	- DELTA VZ		172
J25-K5	TB1-47A	A 50R	+ DELTA VZ		174
J25-K6	TB1-45D	A 49L	- DELTA VY		173
J25-L1			SPARE		
J25-L2	J24-F6	A 40W	PZ		455

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-L3	J23-C3	A 38W	PY		446
J25-L4	J23-C1	A 36W	PX		445
J25-L5	TB1-46C	A 51	COMPUTER RETURN		169
J25-L6	TB1-45C	A 49R	+ DELTA VY		171
J25-M1			SPARE		
J25-M2	J24-G6	A 41W	NZ		456
J25-M3	J23-F3	A 39W	NY		448
J25-M4	J23-F1	A 37W	NX		447
J25-M5	TB1-45A	A 48R	+ DELTA VX		168
J25-M6	TB1-45B	A 48L	- DELTA VX		170
J25-N1			SPARE		
J25-N2			SPARE		
J25-N3			SPARE		
J25-N4			SPARE		
J25-N5	TB1-14D	A 76L	25.6 KC LO IMU		7
J25-N6	TB1-13C	A 76R	25.6 KC HI IMU		232
J25-P1			SPARE		
J25-P2			SPARE		
J25-P3			SPARE		
J25-P4			SPARE		
J25-P5	TB1-16B	A 80L	800 CPS 28V 1 PCT LO IMU		231
J25-P6	TB1-15B	A 80R	800 CPS 28V 1 PCT HI IMU		10
J25-R1			SPARE		
J25-R2	TB3-4D	A 122	0 VDC IMU		7
J25-R3			SPARE		
J25-R4			SPARE		
J25-R5			SPARE		
J25-R6	J12-M*	A 71	+28 VDC CDU NOT LOCK		239
J25-S1	J14-EE	A 65	ZERO ENCODER RELAY CONTROL		316
J25-S1	J26-L2	A 66	ZERO ENCODER RELAY CONTROL		316
J25-S2	TB2-42C	A 113	+28 VDC IMU		39
J25-S3	J14-AA	A 67	LOCK CDU RELAY CONTROL		312

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-S4			SPARE		
J25-S5			SPARE		
J25-S6	TB2-43A	A 114	+28 VDC IMU		39
J25-T1			SPARE		
J25-T2			SPARE		
J25-T3			SPARE		
J25-T4			SPARE		
J25-T5			SPARE		
J25-T6			SPARE		
	J26 105 SOCKET CONNECTOR 1902080-007				
J26-A1	J13-R*	A 13L	IG CDU MDA TACH SIGNAL		277
J26-A2	J13-T*	A 13Y	IG CDU MDA SLEW SIGNAL		278
J26-A3	J13-BB	A 22L	MG CDU MDA TACH SIGNAL		283
J26-A4	J13-CD	A 22Y	MG CDU MDA SLEW SIGNAL		284
J26-A5	J13-LL	A 33L	OG CDU MDA TACH SIGNAL		290
J26-A6	J13-NN	A 33Y	OG CDU MDA SLEW SIGNAL		291
J26-A7	J14-LL	A 176	ZERO ENCODER MODE IND TO AGC		317
J26-A8	J3-G	A 164R	SIN AOG 1 X S2		67
J26-A8	J11-J	A 165R	SIN AOG 1 X S2		67
J26-A9	J3-F	A 164L	SIN AOG 1 X S4		66
J26-A9	J11-K	A 165L	SIN AOG 1 X S4		66
J26-B1	E1	A 12R	IG DAC MDA SIGNAL LO		1
J26-B1	J13-S*	A 13R	IG CDU MDA INPUT RETURN		1
J26-B2	E2	A 12L	IG DAC MDA SIGNAL HI		2
J26-B3	E3	A 21R	MG CDU MDA INPUT RETURN		3
J26-B3	J13-CC	A 22R	MG CDU MDA INPUT RETURN		3
J26-B4	E4	A 21L	MG CDU MDA SIGNAL HI		4
J26-B5	E5	A 32R	OG CDU MDA INPUT RETURN		5

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-B5	J13-MM	A 33R	OG CDU MDA INPUT RETURN		5
J26-B6	E6	A 32L	OG DAC MDA SIGNAL HI		6
J26-B7	E31	A 817	AGC COMMON		9
J26-B8	J3-D	A 166R	COS AOG 1 X S3		64
J26-B8	J11-Y*	A 167R	COS AOG 1 X S3		64
J26-B9	J11-H	A 165Y	SIN AOG 1 X TO CDU		198
J26-C1	J13-M*	A 132R	IG CDU 16 X ERROR SIGNAL		275
J26-C2	TB1-2A	A 133R	IG CDU 1 X ERROR SIGNAL		276
J26-C3	J13-L*	A 138R	MG CDU 16 X ERROR SIGNAL		279
J26-C4	TB1-3A	A 139R	MG CDU 1 X ERROR SIGNAL		280
J26-C5	TB1-48C	A 147Y	OG CDU 16 X ERROR SIGNAL		285
J26-C6	TB1-48A	A 147R	OG CDU 1 X ERROR SIGNAL		287
J26-C7	J14-T*	A 156W	OG CDU 16 X RSVR LOAD		308
J26-C8	J3-E	A 166L	COS AOG 1 X S1		65
J26-C8	J11-Z*	A 167L	COS AOG 1 X S1		65
J26-C9	J11-X*	A 167Y	COS AOG 1 X TO CDU		217
J26-D1	J14-MM	A 130R	IG CDU 1/2 X ERROR SIGNAL		318
J26-D2	J13-N*	A 132L	IG CDU ERROR SIGNAL RETURN		69
J26-D2	TB1-2C	A 133L	IG CDU ERROR SIGNAL RETURN		69
J26-D3	J13-Y*	A 137R	MG CDU 1/2 X ERROR SIGNAL		281
J26-D4	J13-V*	A 138L	MG CDU ERROR SIGNAL RETURN		70
J26-D4	TB1-3C	A 139L	MG CDU ERROR SIGNAL RETURN		70
J26-D5	J13-JJ	A 144R	OG CDU 1/2 X ERROR SIGNAL		288
J26-D6	TB1-49A	A 147L	OG CDU ERROR SIGNAL RETURN		286
J26-D7	J1-D	A 174R	COS AOG 16 X S1		13
J26-D8	J1-E	A 168R	SIN AOG 16 X S2		14
J26-D9	J1-F	A 168L	SIN AOG 16 X S4		15
J26-D9	J11-DD	A 169R	SIN AOG 16 X S4		15
J26-F1	J14-NN	A 130L	IG CDU ERROR SIGNAL RETURN		319
J26-F2	J14-R*	A 153W	IG CDU 1 X RSVR LOAD		306
J26-F3	J13-Z*	A 137L	MG CDU ERROR SIGNAL RETURN		282
J26-F4	J14-C*	A 154W	MG CDU 1 X RSVR LOAD		305

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-F5	J13-KK	A 144L	OG CDU ERROR SIGNAL RETURN		289
J26-F6	J14-S*	A 155W	OG CDU 1 X RSVR LOAD		307
J26-F7	J1-C	A 174L	COS AOG 16 X S3		12
J26-F7	J11-AA	A 175R	COS AOG 16 X S3		12
J26-F8	J11-BB	A 175L	COS AOG 16 X TO CDU		218
J26-F9	J11-CC	A 169L	SIN AOG 16 X TO CDU		219
J26-G1	J1-W	A 170L	COS AIG 16 X S3		28
J26-G1	J11-F*	A 171R	COS AIG 16 X S3		28
J26-G2	J11-G*	A 171L	COS AIG 16 X TO CDU		210
J26-G3	J1-G	A 172L	COS AMG 16 X S3		16
J26-G3	J11-S*	A 173R	COS AMG 16 X S3		16
J26-G4	J11-T*	A 173L	COS AMG 16 X TO CDU		214
J26-G5			SPARE		
J26-G6			SPARE		
J26-H1	J1-X	A 170R	COS AIG 16 X S1		29
J26-H2			SPARE		
J26-H3	J1-H	A 172R	COS AMG 16 X S1		17
J26-H4			SPARE		
J26-H5			SPARE		
J26-H6			SPARE		
J26-K1			SPARE		
J26-K2			SPARE		
J26-K3			SPARE		
J26-K4			SPARE		
J26-K5			SPARE		
J26-K6			SPARE		
J26-L1	J25-H4	A 35	FINE ALIGN RELAY CONTROL		313
J26-L2	J25-S1	A 66	ZERO ENCODER RELAY CONTROL		316
J26-L3	TB1-52C	A 181L	COMPUTER 800 PPS SYNC RETURN		7
J26-L4	TB1-52A	A 181R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
J26-L5			SPARE		
J26-L6			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-M1	J14-CD	A 177	ENTRY RELAY CONTROL		315
J26-M2	J22-H5	A 136W	IG CDU FAILURE INDICATION		438
J26-M3	J22-H6	A 143W	MG CDU FAILURE INDICATION		439
J26-M4	TB1-52B	A 181Y	COMPUTER 800 PPS IN PHASE SYNC		151
J26-M5			SPARE		
J26-M6			SPARE		256
J26-N1	J12-LL	A 159R	OG CDU MDA OUTPUT		257
J26-N2	J12-NN	A 159Y	OG CDU MDA OUTPUT		437
J26-N3	J22-G6	A 152W	OG CDU FAILURE INDICATION		7
J26-N4	J27-L6	A 61	STRUCTURE GROUND		7
J26-N4	TB3-2S	A 573	STRUCTURE GRD		346
J26-N5	TB1-55D	A 198L	800 CPS 28V 1 PCT LC OPTICS		346
J26-N5	TB2-1D	A 199L	800 CPS 28V 1 PCT LC OPTICS		343
J26-N6	TB2-3C	A 208L	800 CPS 28V 5 PCT L-90 LO OPTICS		213
J26-P1	J11-P*	A 157Y	IG CDU MDA OUTPUT		7
J26-P2	TB1-51A	A 163	0 VDC IMU		255
J26-P3	J12-KK	A 158Y	MG CDU MDA OUTPUT		11
J26-P4	J1-B	A 82L	IMU RSVR EXC 800 CPS 28V 1 PCT LO IMU		345
J26-P5	TB1-53D	A 198R	800 CPS 28V 1 PCT HI OPTICS		345
J26-P5	TB1-54D	A 199R	800 CPS 28V 1 PCT HI OPTICS		342
J26-P6	TB2-2C	A 208R	800 CPS 28V 5 PCT L-90 HI OPTICS		212
J26-R1	J11-J*	A 157R	IG CDU MDA OUTPUT		7
J26-R2	TB1-51D	A 160	0 VDC IMU		254
J26-R3	J12-HH	A 158R	MG CDU MDA OUTPUT		238
J26-R4	J12-K*	A 201W	ZEROING RSVR 800 CPS		7
J26-R5	TB3-17J	A 433	0 VDC OPTICS		7
J26-R6	TB3-17K	A 434	0 VDC OPTICS		294
J26-S1	J14-M	A 178	+ 28 VDC IMU FOR IG MDA		39
J26-S2	TB2-43B	A 115	+ 28 VCC IMU		231
J26-S3	TB1-16C	A 81L	800 CPS 28V 1 PCT LC IMU		10
J26-S4	TB1-15C	A 81R	800 CPS 28V 1 PCT HI IMU		10
J26-S4	J1-A	A 82R	800 CPS 28V 1 PCT HI IMU		

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(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-S5	TB2-47B	A 430	+ 28 VDC OPTICS		370
J26-S6	TB2-47C	A 428	+ 28 VDC OPTICS		341
J26-T1	J14-N	A 179	+ 28 VDC IMU FOR MG MDA		295
J26-T2	J14-P	A 180	+ 28 VDC IMU FOR OG MDA		296
J26-T3			SPARE		
J26-T4			SPARE		
J26-T5			SPARE		
J26-T6			SPARE		
	J27	105 SOCKET CONNECTOR 1902080-008			
J27-A1	J21-C3	A 151L	OG CDU ATTITUDE STEERING ERRCR		426
J27-A2	TB1-48D	A 146R	OG CDU 16 X ERROR SIGNAL		285
J27-A3	J11-W	A 211R	ROLL ERRCR BODY OFFSET AXIS HI		206
J27-A4	J11-P	A 209R	ROLL ERRCR BCDY AXIS HI		200
J27-A6	J19-C*	A 697R	TRUN CDU ENCODER PHASE 1		412
J27-A7	SHLD A697	A 697B	TRUNNICN CDU ENCODER COMMON		414
J27-A7	J19-F*	A 697Y	TRUN CDU ENCODER COMMON		414
J27-A8	J19-E*	A 697L	TRUN CDU ENCODER PHASE 2		413
J27-A9	J27-B9	A 706	TRUN ENCODER SCALE SELECT		457
J27-B1	J21-B3	A 151R	OG CDU ERROR SIGNAL RETURN		286
J27-B2	TB1-49B	A 146L	OG CDU ERROR SIGNAL RETURN		286
J27-B3	J11-X	A 211L	ROLL ERROR BODY OFFSET AXIS LO		207
J27-B4	J11-N	A 209L	ROLL ERROR BODY AXIS LC		201
J27-B5	J2-L	A 711L	IRIG TEMP CONT SENSCR RETURN		44
J27-B6	J2-M	A 711R	IRIG TEMP CONT SENSCR HI		45
J27-B7	J12-G	A 749	IMU TEMP CONTROL - 5 DEG GAIN CHECK		223
J27-B8	J12-C	A 712	IRIG ZERO DEVIATION CHECK		220
J27-B9	J27-A9	A 706	TRUN ENCODER SCALE SELECT		457
J27-C1	J11-T	A 212L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J27	105 SOCKET CONNECTOR 1902080-008				
J27-C1	J3-P	A 213L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74
J27-C2	J3-R	A 213R	PITCH - YAW RSVR S4		75
J27-C3	J11-U	A 214R	YAW ERROR BODY OFFSET AXIS HI		205
J27-C4	J11-P	A 210R	YAW ERROR BODY AXIS HI		202
J27-C5	J2-A*	A 708L	IRIG TEMP IND SENSCR RETURN		54
J27-C6	J2-Z	A 708R	IRIG TEMP IND SENSCR HI		53
J27-C7	J5-AA	A 709	IRIG TEMP BRIDGE AMPL PIN 6		133
J27-C8	J13-W	A 710	IRIG TEMP GAIN SWITCH NC		270
J27-C9	J18-R*	A 696R	SHAFT CDU ENCODER PHASE 1		393
J27-D1	J11-S	A 212R	PITCH ERROR BODY + BODY OFFSET AXIS HI		204
J27-D2	J3-N	A 215R	PITCH - YAW RSVR S3		73
J27-D3	J11-V	A 214L	YAW ERROR BODY OFFSET AXIS LO		72
J27-D3	J3-M	A 215L	YAW ERROR BODY OFFSET AXIS LO		72
J27-D4	J11-R	A 210L	YAW ERROR BODY AXIS LO		203
J27-D5	J5-A	A 715	ACCEL TEMP IND SENSCR RETURN		110
J27-D6	J12-F	A 748	IMU TEMP CONTROL + 5 DEG GAIN CHECK		222
J27-D7	J12-E	A 713	ACCEL ZERO DEVIATION CHECK		221
J27-D8			SPARE		
J27-D9	SHLD A696	A 696B	SHAFT CDU ENCODER COMMON		395
J27-D9	J18-T*	A 696Y	SHAFT CDU ENCODER COMMON		395
J27-F1			SPARE		7
J27-F2	J12-CC	A 453	TEMP CONTROL SIG LC		7
J27-F2	TB2-11C	A 454	0 VDC IMU		250
J27-F3	J12-CD	A 718	HEATER CURRENT (TELEM)		249
J27-F4	J12-BB	A 717	IRIG TEMP (TELEM)		248
J27-F5	J12-AA	A 716	ACCEL TEMP (TELEM)		251
J27-F6	J12-EE	A 719	BLOWER CURRENT SENSCR (TELEM)		134
J27-F7	J5-BB	A 714	ACCEL BRIDGE AMP PIN 6		
J27-F8			SPARE		394
J27-F9	J18-S*	A 696L	SHAFT CDU ENCODER PHASE 2		458
J27-G1	K1-8	A 728	IMU TEMP ALARM AMP PIN 14		459
J27-G2	K5-3	A 738	IMU TEMP ALARM AMP PIN 15		

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(CONT.) J27	105 SOCKET CONNECTOR 1902080-008				
J27-G3			SPARE		162
J27-G4	TB2-5A	A 698R	SHAFT ENCODER + DELTA THETA CUTPUT		
J27-G5			SPARE		157
J27-G6	TB2-7A	A 702R	TRUN ENCODER + DELTA THETA OUTPUT		460
J27-H1	K1-4	A 739	IMU TEMP ALARM BIAS RESISTOR		461
J27-H2	K1-7	A 736	IMU TEMP ALARM AMP PIN 5		
J27-H3			SPARE		160
J27-H4	TB2-6A	A 698Y	SHAFT ENCODER DELTA THETA OUTPUT COM		
J27-H5			SPARE		158
J27-H6	TB2-6C	A 702Y	TRUN ENCODER DELTA THETA OUTPUT COM		
J27-K1			SPARE		
J27-K2			SPARE		
J27-K3			SPARE		159
J27-K4	TB2-5C	A 698L	SHAFT ENCODER - DELTA THETA CUTPUT		
J27-K5			SPARE		161
J27-K6	TB2-7C	A 702L	TRUN ENCODER - DELTA THETA OUTPUT		462
J27-L1	K2-4	A 726	IMU TEMP CONT K2 PIN 6		
J27-L2			SPARE		199
J27-L3	J11-L	A 752	IMU TEMP LIGHT (MAIN PANEL)		452
J27-L4	TB2-10A	A 767Y	+ 32, +120 VDC RET PIP		453
J27-L5	TB2-9C	A 767L	+ 120 VDC PIP		7
J27-L6	J26-N4	A 61	STRUCTURE GROUND		7
J27-L6	J28-P4	A 62	STRUCTURE GROUND		463
J27-M1	K5-4	A 727	0 VDC IMU		43
J27-M2	J2-K	A 747	IMU TEMP SENSOR COMMON		235
J27-M3	J22-F3	A 750	0 VDC SPACECRAFT		51
J27-M4	J2-X	A 707R	IMU EMERG HEATER HI		464
J27-M5	K2-3	A 732	IMU TEMP CONTROL K1 PIN 3		465
J27-M6	K3-7	A 735	IMU TEMP CONTROL AMP PIN 5		50
J27-N1	J2-W	A 746L	IMU CONTROL HEATER LO		428
J27-N2	TB2-11A	A 456R	3200 CPS 20 V HI		7
J27-N3	TB1-21A	A 763L	25.6 KC LO OPTICS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J27	105 SOCKET CONNECTOR 1902080-008				
J27-N4	J2-R	A 707L	EMERG HTR LC - OPER AND STBY		48
J27-N5	K4-8	A 730	IMU TEMP CONTROL K2 PIN 5		466
J27-N6	K2-8	A 731	IMU HEATER CURRENT AMP PIN 5		467
J27-P1	J2-V	A 746R	IMU CONTROL HEATER HI		49
J27-P2	TB2-11D	A 456L	3200 CPS 20 V CT		7
J27-P3	TB1-20A	A 763R	25.6 KC HI OPTICS		344
J27-P4	TB2-10D	A 755L	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
J27-P5	J12-P*	A 757	IMU TEMP CONTROL FAIL LIGHT HI		240
J27-P6	J14-S	A 758	CONDITION LAMP TEST		297
J27-R1	J21-S3	A 759	+ 28VDC STBY TO 3200 CPS PWR SUPPLY		429
J27-R2	TB2-11B	A 456Y	3200 CPS 20 V LO		427
J27-R3	TB1-26B	A 642W	COMPUTER 12.8 KPPS SYNC		188
J27-R4	TB2-8A	A 755R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
J27-R5	TB2-54B	A 595	+ 28 VDC MDV		124
J27-R6	TB3-17L	A 464	0 VDC OPTICS		7
J27-S1	J27-S2	A 458	0 VDC IMU		7
J27-S1	TB2-12B	A 459	0 VDC IMU		7
J27-S2	J27-S1	A 458	0 VDC IMU		7
J27-S3	J27-S4	A 460	0 VDC IMU		7
J27-S3	TB2-12D	A 461	0 VDC IMU		7
J27-S4	J27-S3	A 460	0 VDC IMU		7
J27-S5			SPARE		
J27-S6	TB3-17M	A 465	0 VDC OPTICS		7
J27-T1	J27-T2	A 496	+ 28 VDC STBY		241
J27-T1	TB2-48A	A 497	+ 28 VDC STBY		241
J27-T2	J27-T1	A 496	+ 28 VDC STBY		241
J27-T3	J14-PP	A 760	+ 28VDC IMU		320
J27-T3	J27-T4	A 761	+ 28VDC IMU		320
J27-T4	J27-T3	A 761	+ 28VDC IMU		320
J27-T5	TB2-9A	A 767R	+ 32 VDC PIP		454
J27-T6	TB2-46A	A 425	+ 28 VDC OPTICS		468

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J28	105 SOCKET CONNECTOR 1902080-009				
J28-A1	J32-R	A 770R	SXT SHAFT 1/2 X RSVR S3		384
J28-A1	J18-F*	A 771R	SXT SHAFT 1/2 X RSVR S3		384
J28-A2	TB2-14B	A 774R	SXT SHAFT 16 X RSVR S4		388
J28-A3	TB2-15A	A 774L	SXT SHAFT 16 X RSVR S2		387
J28-A4			SPARE		
J28-A5	J31-B*	A 805E	SCT SHAFT TACH HI		469
J28-A6			SPARE		
J28-A7	J32-H	A 775E	SXT SHAFT TACH HI		470
J28-A8			SPARE		
J28-A9	J32-E*	A 796E	SXT TRUN TACH HI		471
J28-B1	J32-P	A 770L	SXT SHAFT 1/2 X RSVR S1		383
J28-B1	J18-E*	A 771L	SXT SHAFT 1/2 X RSVR S1		383
J28-B2			SPARE		
J28-B3			SPARE		
J28-B4			SPARE		
J28-B5	SHLD A805	A 805B	SCT SHAFT TACH LO		472
J28-B6			SPARE		
J28-B7	SHLD A775	A 775B	SXT SHAFT TACH LO		473
J28-B8			SPARE		
J28-B9	SHLD A796	A 796B	SXT TRUN TACH LO		474
J28-C1	TB2-20B	A 795R	SXT TRUN 64 X RSVR S2		417
J28-C2	TB2-21A	A 795L	SXT TRUN 64 X RSVR S4		418
J28-C3			SPARE		
J28-C4			SPARE		
J28-C5	J31-C*	A 801L	SCT SHAFT 1 X RSVR S2		475
J28-C6			SPARE		
J28-C7	TB2-24A	A 388R	TRACKER X DRIVE BUFFERED HI		329
J28-C8	TB2-24C	A 391R	TRACKER Y DRIVE BUFFERED HI		330
J28-C9	TB2-27A	A 394R	TRACKER PREAMP OUTPUT BUFF HI		327
J28-D1	J32-I*	A 808R	TRUN CDU 1/4 X RSVR S4		403
J28-D1	J19-T	A 809R	TRUN CDU 1/4 X RSVR S4		403
J28-D2			SPARE		

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(CONT.) J28	105 SOCKET CONNECTOR 1902080-009				
J28-D3	J31-K	A 806R	SCT TRUN 1 X RSVR P1		476
J28-D4	J31-J	A 806L	SCT TRUN 1 X RSVR P3		477
J28-D5	SHLD A801	A 801B	SCT SHAFT 1X RSVR S4		478
J28-D5	J31-E*	A 801R	SCT SHAFT 1 X RSVR S4		478
J28-D6			SPARE		
J28-D7	TB2-26A	A 388L	TRACKER X DRIVE BUFFERED LO		7
J28-D8	TB2-26B	A 391L	TRACKER Y DRIVE BUFFERED LO		7
J28-D9	TB2-26C	A 394L	TRACKER PRE AMP OUTPUT BUFF LO		7
J28-F1	J32-J*	A 808L	TRUN CDU 1/4 X RSVR S2		402
J28-F1	J19-S	A 809L	TRUN CDU 1/4 X RSVR S2		402
J28-F2	J32-K*	A 810R	TRUN CDU 1/4 X RSVR S1		401
J28-F2	J19-R	A 811R	TRUN CDU 1/4 X RSVR S1		401
J28-F3	J32-M*	A 810L	TRUN CDU 1/4 X RSVR S3		400
J28-F3	J19-P	A 811L	TRUN CDU 1/4 X RSVR S3		400
J28-F4	J31-G	A 807R	SCT TRUN 1 X RSVR P2		479
J28-F5	J31-H	A 807L	SCT TRUN 1 X RSVR P4		480
J28-F6			SPARE		
J28-F7			SPARE		
J28-F8			SPARE		
J28-F9			SPARE		
J28-G1	J29-G6	A 776R	SXT SHAFT MCA INPUT HI		481
J28-G2	J29-G5	A 776L	SXT SHAFT MCA INPUT LO		482
J28-G3	TB2-29A	A 402R	SHAFT + DELTA THETA CMD		141
J28-G4	TB2-5B	A 699R	SHAFT ENCODER + DELTA THETA OUTPUT		162
J28-G5	TB2-28A	A 399R	TRUN + DELTA THETA CMD		144
J28-G6	TB2-7B	A 703R	TRUN ENCODER + DELTA THETA OUTPUT		157
J28-H1	J29-H6	A 797L	SXT TRUN MCA INPUT LO		483
J28-H2			SPARE		
J28-H3	TB2-29C	A 402L	SHAFT DELTA THETA CMD COMMON		142
J28-H4	TB2-6B	A 699Y	SHAFT ENCODER DELTA THETA OUTPUT COM		160
J28-H5	TB2-28C	A 399L	TRUN DELTA THETA CMD COMMON		145
J28-H6	TB2-6D	A 703Y	TRUN ENCODER DELTA THETA OUTPUT COMM		158

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(CONT.) J28	105 SOCKET CONNECTOR 1902080-009				
J28-K1	J29-K6	A 797R	SXT TRUN MCA INPUT HI		484
J28-K2			SPARE		
J28-K3	TB2-29B	A 402Y	SHAFT - DELTA THETA CMD		143
J28-K4	TB2-5D	A 699L	SHAFT ENCODER - DELTA THETA OUTPUT		159
J28-K5	TB2-28B	A 399Y	TRUN - DELTA THETA CMD		146
J28-K6	TB2-7D	A 703L	TRUN ENCODER - DELTA THETA OUTPUT		161
J28-L1	J28-L2	A 403	0 VDC OPTICS		7
J28-L2	J28-L1	A 403	0 VDC OPTICS		7
J28-L2	J28-L3	A 404	0 VDC OPTICS		7
J28-L3	J28-L2	A 404	0 VDC OPTICS		7
J28-L3	J28-L4	A 405	0 VDC OPTICS		7
J28-L4	J28-L3	A 405	0 VDC OPTICS		7
J28-L4	J28-L5	A 406	0 VDC OPTICS		7
J28-L5	J28-L4	A 406	0 VDC OPTICS		7
J28-L5	J28-L6	A 407	0 VDC OPTICS		7
J28-L6	J28-L5	A 407	0 VDC OPTICS		7
J28-L6	TB2-30A	A 409	0 VDC OPTICS		7
J28-M1	TB2-18A	A 785	SXT TRUN MCA INPUT BUFFERED		337
J28-M2	TB2-18B	A 786	SXT TRUN TACH FDBK BUFFERED		336
J28-M3	TB2-17A	A 780	SXT SHAFT MCA INPUT BUFFERED		324
J28-M4	TB2-17B	A 781	SXT SHAFT TACH FDBK BUFFERED		326
J28-M5	TB2-19A	A 789	SCT SHAFT 1 X ERROR SIG BUFFERED		334
J28-M6	TB2-19B	A 790	SCT SHAFT TACH FDBK BUFFERED		323
J28-N1			SPARE		
J28-N2			SPARE		
J28-N3			SPARE		
J28-N4			SPARE		
J28-N5			SPARE		
J28-N6			SPARE		
J28-P1	J17-S	A 812R	ZERO OPTICS MODE CMD		354
J28-P2	J17-R*	A 813	0 DEG OFFSET RELAY CMD		365
J28-P3	J17-R	A 812L	COMPUTER RELAY CMD		353

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(CONT.) J28	105 SOCKET CONNECTOR 1902080-009				
J28-P4	J27-L6	A 62	STRUCTURE GROUND		7
J28-P4	J29-R4	A 63	STRUCTURE GROUND		7
J28-P5			SPARE		
J28-P6			SPARE		
J28-R1	J17-P	A 216	TRACKER MODE RELAY CMD		352
J28-R1	J29-R6	A 217	TRACKER MODE RELAY CMD		352
J28-R2	J17-S*	A 218	25 DEG OFFSET RELAY CMD		366
J28-R3			SPARE		
J28-R4	TB2-30C	A 414	0 VDC OPTICS		7
J28-R5	TB2-31A	A 415	0 VDC OPTICS		7
J28-R6	TB2-31C	A 416	0 VDC OPTICS		7
J28-S1	TB1-55C	A 193L	800 CPS 28V 1 PCT LC OPTICS		346
J28-S2			SPARE		
J28-S3	TB3-17D	A 417	BUFFERED 0 VDC		7
J28-S4	TB2-23A	A 802R	SCT SHAFT MCT PHASE 2		485
J28-S5	TB2-16A	A 778R	SXT SHAFT MCT PHASE 2		486
J28-S6	TB2-22A	A 798R	SXT TRUN MOT PHASE 2		487
J28-T1	TB1-54C	A 193R	800 CPS 28V 1 PCT HI OPTICS		345
J28-T2	TB2-46A	A 423	+ 28 VDC OPTICS		468
J28-T3	J17-B8	A 219	+ 28 VDC OPTICS DAC PWR		369
J28-T4	TB2-23D	A 802L	SCT SHAFT MCT PHASE 1		488
J28-T5	TB2-16D	A 778L	SXT SHAFT MOT PHASE 1		489
J28-T6	TB2-22D	A 798L	SXT TRUN MCT PHASE 1		490
J29	105 SOCKET CONNECTOR 1902080-010				
J29-A1	J31-R	A 220E	SCT TRUN TACH HI		491
J29-A2			SPARE		
J29-A3			SPARE		
J29-A4			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-A5			SPARE		
J29-A6	J19-W*	A 227	TRUN CDU TACH HI		421
J29-A7			SPARE		
J29-A8			SPARE		
J29-A9	J18-W*	A 236E	SHAFT CDU TACH HI		396
J29-B1	SHLD A220	A 22CB	SCT TRUNN TACH LO		492
J29-B2			SPARE		
J29-B3			SPARE		
J29-B4	SHLD A226	A 226B	TRUN CDU 16 X RSVR S3		419
J29-B4	J19-R*	A 226L	TRUN CDU 16 X RSVR S3		419
J29-B5	J19-S*	A 226R	TRUN CDU 16 X RSVR S2		420
J29-B6	SHLD A227	A 227B	TRUN CDU TACH LO		422
J29-B7	SHLD A235	A 235B	SHAFT CDU 16X RSVR S3		389
J29-B7	J18-K*	A 235R	SHAFT CDU 16 X RSVR S3		389
J29-B8	J18-M*	A 235L	SHAFT CDU 16 X RSVR S2		390
J29-B9	SHLD A236	A 236B	SHAFT CDU TACH LO		397
J29-C1	SHLD A221	A 221B	SCT TRUN 1 X RSVR S2		493
J29-C1	J31-L	A 221R	SCT TRUN 1 X RSVR S2		493
J29-C2	J31-M	A 221L	SCT TRUN 1 X RSVR S4		494
J29-C3			SPARE		
J29-C4			SPARE		
J29-C5	J19-M	A 222R	TRUN CDU 1/4 X RSVR P2		398
J29-C6	J19-N	A 222L	TRUN CDU 1/4 X RSVR P3		399
J29-C7			SPARE		
J29-C8	J18-B*	A 229R	SHAFT CDU 1/2 X RSVR P1		380
J29-C9	J18-A*	A 229L	SHAFT CDU 1/2 X RSVR P3		379
J29-D1			SPARE		
J29-D2	J17-G*	A 469L	SCT TRUN TRACKER MCDE INPUT LO		362
J29-D3	J17-F*	A 469R	SCT TRUN TRACKER MCDE INPUT HI		361
J29-D4			SPARE		
J29-D5			SPARE		
J29-D6			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-D7	J17-C*	A 237L	SHAFT HAND CONTROLLER OUTPUT LO		360
J29-D8	J17-B*	A 237R	SHAFT HAND CONTROLLER OUTPUT HI		359
J29-D9			SPARE		
J29-F1			SPARE		
J29-F2			SPARE		
J29-F3			SPARE		
J29-F4			SPARE		
J29-F5			SPARE		
J29-F6			SPARE		
J29-F7			SPARE		
J29-F8	J17-W	A 228L	TRUN HAND CONTROLLER OUTPUT LO		357
J29-F9	J17-V	A 228R	TRUN HAND CONTROLLER OUTPUT HI		356
J29-G1	J19-Y	A 223E	TRUN CDU 1/2 X RSVR S1		408
J29-G2			SPARE		
J29-G3	J18-R	A 233R	SHAFT CDU 1 X RSVR P4		375
J29-G4	J18-P	A 233L	SHAFT CDU 1 X RSVR P2		374
J29-G4	J30-C9	A 234R	Y TRACKER OUTPUT LO		374
J29-G5	J28-G2	A 776L	SXT SHAFT MCA INPUT LO		482
J29-G6	J28-G1	A 776R	SXT SHAFT MCA INPUT HI		481
J29-H1	SHLD A223	A 223B	TRUN CDU 1/2 X RSVR S3		409
J29-H2			SPARE		
J29-H3			SPARE		
J29-H4	J30-C9	A 234L	Y TRACKER OUTPUT HI		495
J29-H5	J30-C8	A 231L	X TRACKER CUTPUT HI		496
J29-H6	J28-H1	A 797L	SXT TRUNN MCA INPUT LO		483
J29-K1	J19-W	A 224R	TRUN CDU 1/2 X RSVR S2		406
J29-K2	J19-X	A 224L	TRUN CDU 1/2 X RSVR S4		407
J29-K3			SPARE		
J29-K4	J18-N	A 230R	SHAFT CDU 1 X RSVR P1		373
J29-K5	J18-P	A 230L	SHAFT CDU 1 X RSVR P3		372
J29-K5	J30-C8	A 231R	X TRACKER CUTPUT LC		372
J29-K6	J28-K1	A 797R	SXT TRUN MCA INPUT HI		484

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-L1	J30-B7	A 475	0 VDC OPTICS		7
J29-L1	J29-L2	A 476	0 VDC OPTICS		7
J29-L2	J29-L1	A 476	0 VDC OPTICS		7
J29-L2	J29-L3	A 477	0 VDC OPTICS		7
J29-L3	J29-L2	A 477	0 VDC OPTICS		7
J29-L3	J29-L4	A 478	0 VDC OPTICS		7
J29-L4	J29-L3	A 478	0 VDC OPTICS		7
J29-L4	J29-L5	A 479	0 VDC OPTICS		7
J29-L5	J29-L4	A 479	0 VDC OPTICS		7
J29-L5	J29-L6	A 480	0 VDC OPTICS		7
J29-L6	J29-L5	A 480	0 VDC OPTICS		7
J29-L6	TB2-35B	A 481	0 VDC OPTICS		7
J29-M1	TB2-32A	A 239	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
J29-M2	TB2-32B	A 240	TRUN CDU TACH FDBK BUFFERED		339
J29-M3	TB2-32C	A 241	SHAFT CDU 16 X ERRCR SIG BUFF		325
J29-M4	TB2-34A	A 242	SHAFT CDU TACH FDBK SIG BUFF		333
J29-M5	TB2-34B	A 243	SCT TRUN 1 X ERROR SIG BUFF		340
J29-M6	TB2-34C	A 244	SCT TRUN TACH FDBK BUFF		338
J29-N1			SPARE		
J29-N2			SPARE		
J29-N3			SPARE		
J29-N4			SPARE		
J29-N5			SPARE		
J29-N6			SPARE		
J29-P1	J19-V	A 225L	TRUN CDU 1/2 X RSVR P3		405
J29-P2	J19-U	A 225R	TRUN CDU 1/2 X RSVR P2		404
J29-P3	J18-U	A 232R	SHAFT CDU 1 X RSVR S2		378
J29-P4	J18-S	A 232L	SHAFT CDU 1 X RSVR S3		376
J29-P5	J18-T	A 232Y	SHAFT CDU 1 X RSVR S1		377
J29-P6	J17-U*	A 238	RESOLVED MODE RELAY CMD		367
J29-R1	TB2-36B	A 485	0 VDC OPTICS		7
J29-R2	TB2-36C	A 488	0 VDC OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-R3	TB2-35D	A 491	0 VDC OPTICS		7
J29-R4	J28-P4	A 63	STRUCTURE GROUND		7
J29-R4	J30-M4	A 64	STRUCTURE GROUND		7
J29-R5			SPARE		
J29-R6	J28-R1	A 217	TRACKER MODE RELAY CMD		352
J29-S1	TB2-38C	A 471L	TRUN CDU MOT PHASE 1		410
J29-S2	TB2-39C	A 607L	SHAFT CDU MOT PHASE 1		391
J29-S3	TB2-37C	A 467L	SCT TRUN MOT PHASE 1		497
J29-S4	TB3-17T	A 494	0 VDC OPTICS		7
J29-S5	TB3-17V	A 495	0 VDC OPTICS		7
J29-S6	TB1-55B	A 194L	800 CPS 28V 1 PCT LC OPTICS		346
J29-T1	TB2-38A	A 471R	TRUN CDU MOT PHASE 2		411
J29-T2	TB2-39A	A 607R	SHAFT CDU MOT PHASE 2		392
J29-T3	TB2-37A	A 467R	SCT TRUN MOT PHASE 2		498
J29-T4			SPARE		
J29-T5	TB2-46B	A 424	+ 28 VDC OPTICS		468
J29-T6	TB1-54B	A 194R	800 CPS 28V 1 PCT HI OPTICS		345
J30	105 SOCKET CONNECTOR 1902080-011				
J30-A1			SPARE		
J30-A2			SPARE		
J30-A3			SPARE		
J30-A4	J12-G*	A 251R	IMU PRESSURE MONITOR HI		57
J30-A4	J2-D*	A 252R	IMU PRESSURE MONITOR HI		57
J30-A5			SPARE		
J30-A6	J2-B*	A 253R	PRESSURE SENSOR + 28 VDC HI		55
J30-A7	TB2-55A	A 623R	STAR PRESENCE INPUT HI		499
J30-A8	TB2-55C	A 623L	STAR PRESENCE INPUT LO		150
J30-A9	J32-KK	A 254E	PHOTOMETER SIGNAL HI		500

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-B1			SPARE		
J30-B2			SPARE		
J30-B3			SPARE		
J30-B4	J12-H*	A 251L	IMU PRESSURE MONITOR LO		58
J30-B4	J2-E*	A 252L	IMU PRESSURE MONITOR LO		58
J30-B5			SPARE		
J30-B6	J2-C*	A 253L	PRESSURE SENSOR + 28 VDC LO		56
J30-B7	J29-L1	A 475	0 VDC OPTICS		7
J30-B7	J16-P	A 255L	0 VDC OPTICS		7
J30-B8	J16-N	A 255R	PHOTOMETER PREAMP OUTPUT BUFF HI		328
J30-B9	SHLD A254	A 254B	PHOTOMETER SIG LO		501
J30-C1			SPARE		
J30-C2			SPARE		
J30-C3	TB5-19	A 624L	STAR PRESENCE LO		502
J30-C4	TB5-20	A 624R	STAR PRESENCE HI		503
J30-C5			SPARE		
J30-C6	J31-R*	A 256R	TRACKER X ERROR INPUT HI		504
J30-C7	J31-S*	A 256L	TRACKER X ERROR INPUT LO		505
J30-C8	J29-P5	A 231L	X TRACKER OUTPUT HI		496
J30-C9	J29-P4	A 234L	Y TRACKER OUTPUT HI		495
J30-D1	J12-FF	A 258R	+ 2.5 VDC CONDITIONING HI		252
J30-D2			SPARE		
J30-D3	SHLD A263	A 263B	COMPUTER 102.4 KPPS SYNC RET		164
J30-D4			SPARE		
J30-D5			SPARE		
J30-D6	J31-W*	A 259R	TRACKER Y ERROR INPUT HI		506
J30-D7	J31-X*	A 259L	TRACKER Y ERROR INPUT LO		507
J30-D8	J29-K5	A 231R	X TRACKER OUTPUT LO		372
J30-D9	J29-G4	A 234R	Y TRACKER OUTPUT LO		374
J30-F1	J12-GG	A 258L	+ 2.5 VDC CONDITIONING LO		253
J30-F2	J17-MM	A 260	AUTOMATIC MARK CMD		371
J30-F3	TB1-22A	A 263E	102.4 KPPS INPUT HI		163

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-F4			SPARE		
J30-F5			SPARE		
J30-F6	J17-J*	A 257R	PHOTOMETER MARK REJECT HI		363
J30-F7	J17-K*	A 257L	PHOTOMETER MARK REJECT LO		364
J30-F8	TB1-16C	A 84L	800 CPS 28V 1 PCT LC IMU		231
J30-F9	TB1-15C	A 84R	800 CPS 28V 1 PCT HI IMU		10
J30-G1	J12-J	A 264L	0 VDC CONDITIONING		225
J30-G2	J12-H	A 264R	+ 20 VDC CONDITIONING		224
J30-G3			SPARE		
J30-G4	J30-G5	A 200	800 CPS 28V 1 PCT LC OPTICS		346
J30-G5	TB1-55B	A 195L	800 CPS 28V 1 PCT LC OPTICS		346
J30-G5	J30-G4	A 200	800 CPS 28V 1 PCT LC OPTICS		346
J30-G6	TB1-54B	A 195R	800 CPS 28V 1 PCT HI OPTICS		345
J30-H1	TB3-18Q	A 544	0 VDC IMU		7
J30-H2	J15-H	A 501	+ 28 VDC AGC BUS A		309
J30-H2	J15-H	A 502	+ 28 VDC AGC BUS A		309
J30-H3	J15-P	A 504	+ 28 VDC AGC BUS B		310
J30-H3	J15-P	A 505	+ 28 VDC AGC BUS B		310
J30-H4	J17-Z	A 273E	800 CPS 28V 1 PCT HI OPTICS TRK PWR		358
J30-H5	TB2-3D	A 205L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J30-H6	TB2-2D	A 205R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J30-K1	TB3-18X	A 542	0 VDC IMU		7
J30-K2	TB3-18S	A 543	0 VDC IMU		7
J30-K3			SPARE		
J30-K4			SPARE		
J30-K5	J30-L5	A 266	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J30-K5	TB2-44D	A 267L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J30-K6	J30-L6	A 265	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J30-L1	TB2-43B	A 89	+28 VDC IMU		39
J30-L2	TB2-43C	A 90	+28 VDC IMU		39
J30-L3			SPARE		
J30-L4			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-L5	J30-K5	A 266	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J30-L6	J30-K6	A 265	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J30-L6	TB2-44B	A 267R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J30-M1	TB2-41A	A 85	+ 28 VDC IMU		258
J30-M2	TB2-41B	A 86	+ 28 VDC IMU		258
J30-M3	J15-N	A 269L	400 CPS 115 V LO		322
J30-M4	J29-R4	A 64	STRUCTURE GROUND		7
J30-M5	TB2-54B	A 592	+ 28 VDC MDV		124
J30-M6	J22-G4	A 270	+ 28 VDC IMU FOR 800 CPS 5 PCT MOT		436
J30-N1	TB2-41B	A 87	+ 28 VDC IMU		258
J30-N2	TB2-41C	A 88	+ 28 VDC IMU		258
J30-N3	J15-P	A 269R	400 CPS 115 V HI		321
J30-N4	TB2-45A	A 275	+ 28 VDC OPTICS TRK PWR		368
J30-N5	TB2-54C	A 593	+ 28 VDC MDV		124
J30-N6	TB2-46B	A 426	+ 28 VDC OPTICS		468
J30-P1	TB2-50A	A 522	+ 28 VDC IMU BUS A		303
J30-P2	TB2-51A	A 531	+ 28 VDC IMU BUS B		304
J30-P3	TB3-17Q	A 570	0 VDC OPTICS		7
J30-P4	TB3-17Z	A 571	0 VDC OPTICS		7
J30-P5	TB2-47A	A 591	+ 28 VDC OPTICS		370
J30-P6	TB2-47C	A 429	+ 28 VDC OPTICS		341
J30-R1	TB2-50B	A 523	+ 28 VDC IMU BUS A		303
J30-R2	TB2-51B	A 532	+ 28 VDC IMU BUS B		304
J30-R3	TB2-48A	A 499	+ 28 VDC STBY		241
J30-R4	TB2-48B	A 500	+ 28 VDC STBY		241
J30-R5	TB2-52A	A 551	+ 28 VDC OPTICS BUS A		423
J30-R6	TB2-53A	A 559	+ 28 VDC OPTICS BUS B		424
J30-S1	TB2-50C	A 524	+ 28 VDC IMU BUS A		303
J30-S2	TB2-51C	A 533	+ 28 VDC IMU BUS B		304
J30-S3	TB2-49B	A 511	+ 28 VDC STBY BUS A		301
J30-S4	TB2-49D	A 516	+ 28 VDC STBY BUS B		302
J30-S5	TB2-52B	A 552	+ 28 VDC OPTICS BUS A		423

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-S6	TB2-53B	A 560	+ 28 VDC OPTICS BUS B		424
J30-T1	TB2-50D	A 525	+ 28 VDC IMU BUS A		303
J30-T2	TB2-51D	A 534	+ 28 VDC IMU BUS B		304
J30-T3	TB2-49A	A 510	+ 28 VDC STBY BUS A		301
J30-T4	TB2-49C	A 515	+ 28 VDC STBY BUS B		302
J30-T5	TB2-52C	A 553	+ 28 VDC OPTICS BUS A		423
J30-T6	TB2-53C	A 561	+ 28 VDC OPTICS BUS B		424
J31	61 SOCKET CONNECTOR MS3127E24-61SY				
J31-A			SPARE		
J31-B	TB3-1P	A 583	SHIELD GRD		7
J31-C			SPARE		
J31-D	TB2-37C	A 466Y	SCT TRUN MOT PHASE 1		497
J31-E	TB2-37A	A 466R	SCT TRUN MOT PHASE 2		498
J31-F	TB2-37B	A 466L	0 VDC OPTICS		7
J31-G	J28-F4	A 807R	SCT TRUN 1 X RSVR P2		479
J31-H	J28-F5	A 807L	SCT TRUN 1 X RSVR P4		480
J31-J	J28-C4	A 806L	SCT TRUN 1 X RSVR P3		477
J31-K	J28-C3	A 806R	SCT TRUN 1 X RSVR P1		476
J31-L	J29-C1	A 221R	SCT TRUN 1 X RSVR S2		493
J31-M	J29-C2	A 221L	SCT TRUN 1 X RSVR S4		494
J31-N			SPARE		
J31-P	SHLD A221	A 221A	SCT TRUN 1 X RSVR S2		493
J31-R	J29-A1	A 22CE	SCT TRUN TACH HI		491
J31-S	SHLD A220	A 220A	SCT TRUN TACH LO		492
J31-T	TB2-23D	A 804Y	SCT SHAFT MOT PHASE 1		488
J31-U	TB2-23A	A 804R	SCT SHAFT MOT PHASE 2		485
J31-V	TB2-23B	A 804L	0 VDC OPTICS		7
J31-W	TB3-8C	A 605R	SCT SHAFT DRIVE DISABLE		351

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(CONT.) J31	61 SOCKET CONNECTOR MS3127E24-61SY				
J31-X	TB3-8D	A 605L	0 VDC OPTICS		7
J31-Y			SPARE		
J31-Z			SPARE		
J31-A*			SPARE		
J31-B*	J28-A5	A 805E	SCT SHAFT TACH HI		469
J31-C*	SHLD A805	A 805A	SCT SHAFT TACH LO		472
J31-D*	J28-C5	A 801L	SCT SHAFT 1 X RSVR S2		475
J31-E*	J28-C5	A 801R	SCT SHAFT 1 X RSVR S4		478
J31-F*	SHLD A801	A 801A	SCT SHAFT 1 X RSVR S4		478
J31-G*			SPARE		
J31-H*	TB1-53B	A 191R	800 CPS 28V 1 PCT HI OPTICS		345
J31-I*	TB2-1B	A 191L	800 CPS 28V 1 PCT LC OPTICS		346
J31-J*	TB2-2A	A 206R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J31-K*	TB2-3A	A 206L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J31-M*	TB3-10C	A 669R	400 CPS VAR ILLUM PWR		347
J31-N*	TB3-11C	A 669L	400 CPS 6V LO		348
J31-P*	TB2-24A	A 386R	TRACKER X CRIVE BUFFERED HI		329
J31-C*	TB2-26A	A 386L	TRACKER X CRIVE BUFFERED LO		7
J31-R*	J30-C6	A 256R	TRACKER X ERROR INPUT HI		504
J31-S*	J30-C7	A 256L	TRACKER X ERROR INPUT LO		505
J31-T*			SPARE		
J31-U*			SPARE		
J31-V*			SPARE		
J31-W*	J30-D6	A 259R	TRACKER Y ERROR INPUT HI		506
J31-X*	J30-D7	A 259L	TRACKER Y ERROR INPUT LO		507
J31-Y*	TB2-24C	A 389R	TRACKER Y CRIVE BUFFERED HI		330
J31-Z*	TB2-26C	A 389L	TRACKER Y CRIVE BUFFERED LO		7
J31-AA	TB2-27A	A 392R	TRACKER PREAMP OUTPUT BUFF HI		327
J31-BB	TB2-25C	A 392L	TRACKER PREAMP OUTPUT BUFF LC		7
J31-CC	TB2-45B	A 276	+ 28 VDC OPTICS TRK PWR		368
J31-DD	TB3-17J	A 565	0 VDC OPTICS		7
J31-EE	TB3-17Y	A 568	0 VDC OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J31	61 SOCKET CONNECTOR MS3127E24-61SY				
J31-FF			SPARE		
J31-GG			SPARE		
J31-HH			SPARE		
J31-JJ			SPARE		
J31-KK			SPARE		
J31-LL			SPARE		
J31-MM	E11	A 663	400 CPS SHIELD GRD		8
J31-NN			SPARE		
J31-PP			SPARE		
J32	61 SOCKET CONNECTOR MS3127E24-61SZ				
J32-A			SPARE		
J32-B	TB3-1R	A 584	SHIELD GRD		7
J32-C			SPARE		
J32-D	TB2-16D	A 777Y	SXT SHAFT MOT PHASE 1		489
J32-E	TB2-16A	A 777R	SXT SHAFT MOT PHASE 2		486
J32-F	TB2-16B	A 777L	0 VDC OPTICS		7
J32-G			SPARE		
J32-H	J28-A7	A 775E	SXT SHAFT TACH HI		470
J32-J	SHLD A775	A 775A	SXT SHAFT TACH LO		473
J32-K	TB2-14B	A 772R	SXT SHAFT 16 X RSVR S4		388
J32-L	TB2-15A	A 772L	SXT SHAFT 16 X RSVR S2		387
J32-M	J18-H*	A 289R	SXT SHAFT 16 X RSVR S1		386
J32-N	J18-G*	A 289L	SXT SHAFT 16 X RSVR S3		385
J32-P	J28-B1	A 770L	SXT SHAFT 1/2 X RSVR S1		383
J32-R	J28-A1	A 770R	SXT SHAFT 1/2 X RSVR S3		384
J32-S	J18-C*	A 290R	SXT SHAFT 1/2 X RSVR S4		382
J32-T	J18-C*	A 290L	SXT SHAFT 1/2 X RSVR S2		381
J32-U	TB2-22D	A 799Y	SXT TRUN MOT PHASE 1		490

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J32	61 SOCKET CONNECTOR MS3127E24-61SZ				
J32-V	TB2-22A	A 799R	SXT TRUN MOT PHASE 2		487
J32-W	TB2-22B	A 799L	0 VDC OPTICS		7
J32-X	J16-Y	A 822R	STAR SIMULATOR SIG HI		331
J32-Y	J16-Z	A 822L	STAR SIMULATOR SIG LO		332
J32-Z	SHLD A822	A 822A	0 VDC OPTICS		7
J32-Z	TB3-17Y	A 823	0 VDC OPTICS		7
J32-A*	TB3-17N	A 569	0 VDC OPTICS		7
J32-B*	J28-A9	A 796E	SXT TRUN TACH HI		471
J32-C*	SHLD A796	A 796A	SXT TRUN TACH LO		474
J32-D*	TB3-17X	A 566	0 VDC OPTICS		7
J32-E*	TB2-21A	A 793L	SXT TRUN 64 X RSVR S4		418
J32-F*	TB2-20B	A 793R	SXT TRUN 64 X RSVR S2		417
J32-G*	J19-N*	A 291R	SXT TRUN 64 X RSVR S1		416
J32-H*	J19-M*	A 291L	SXT TRUN 64 X RSVR S3		415
J32-I*	J28-C1	A 808R	TRUN CDU 1/4 X RSVR S4		403
J32-J*	J28-F1	A 808L	TRUN CDU 1/4 X RSVR S2		402
J32-K*	J28-F2	A 810R	TRUN CDU 1/4 X RSVR S1		401
J32-M*	J28-F3	A 810L	TRUN CDU 1/4 X RSVR S3		400
J32-N*	TB1-53C	A 192R	800 CPS 28V 1 PCT HI OPTICS		345
J32-P*	TB2-1C	A 192L	800 CPS 28V 1 PCT LC OPTICS		346
J32-Q*	TB2-2B	A 207R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J32-R*	TB2-3B	A 207L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J32-S*	TB3-10D	A 670R	400 CPS VAR ILLUM PWR		347
J32-T*	TB3-11D	A 670L	400 CPS 6 V LO		348
J32-U*			SPARE		
J32-V*			SPARE		
J32-W*	TB2-45B	A 277R	+ 28 VDC OPTICS TRK PWR		368
J32-X*	TB2-45C	A 277L	0 VDC OPTICS		7
J32-Y*	SHLD A793	A 793A	SXT TRUN 64 X RSVR S2		417
J32-Z*	SHLD A772	A 772A	SXT SHAFT 16 X RSVR S4		388
J32-AA	TB3-8A	A 603R	SXT SHAFT DRIVE ENABLE		349
J32-BB	TB3-8B	A 603L	SXT TRUN DRIVE ENABLE		350

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J32	61 SOCKET CONNECTOR MS3127E24-61SZ				
J32-CC	TB3-9B	A 603Y	0 VDC OPTICS		7
J32-DD			SPARE		
J32-EE			SPARE		
J32-FF			SPARE		
J32-GG			SPARE		
J32-HH			SPARE		
J32-JJ			SPARE		
J32-KK	J30-A9	A 254E	PHOTOMETER SIGNAL HI		500
J32-LL	SHLD A254	A 254A	PHOTOMETER SIGNAL LC		501
J32-MM	TB2-55A	A 622R	STAR PRESENCE INPUT HI		499
J32-NN	TB2-55C	A 622L	STAR PRESENCE INPUT LO		150
J32-PP	E11	A 664	400 CPS SHIELD GRD		8
	J41	TEST POINT JACK 1016166-006			
J41	TB5-10	A 634	CDU FAIL		508
	J42	TEST POINT JACK 1016166-006			
J42	SHLD A634	A 634A	CDU FAIL TEST LO		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J43	TEST POINT JACK 1016166-006			
J43	TB5-16	A 638E	IMU FAIL		509
	J44	TEST POINT JACK 1016166-006			
J44	SHLD A638	A 638A	IMU FAIL TEST LO		7
	J45	TEST POINT JACK 1016166-006			
J45	TB5-4	A 814E	ACCEL FAIL		510
	J46	TEST POINT JACK 1016166-006			
J46	SHLD A814	A 814A	ACCEL FAIL TEST LO		7
	J47	TEST POINT JACK 1016166-006			
J47	TB5-22	A 627E	STAR PRESENCE HI		511

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J48	TEST POINT JACK 1016166-006			
J48	SHLD A627	A 627A	STAR PRESENCE TEST LO		150
	K 1	RELAY 1015832-318			
K1-1	J5-GG	A 720R	TMC AUTO OVRD AND PROP MODE CMD HI	4	131
K1-1	K6-1	A 721R	AUTO OVRD PROP AND BACKUP MODE CM HI	4	131
K1-3	K4-8	A 729	IMU TEMP CONTROL K2 PIN 5	4	466
K1-4	J27-H1	A 739	IMU TEMP ALARM BIAS RESISTOR	4	460
K1-5	J5-HH	A 720L	AUTO OVRD AND PROP MODE CMD LO	4	138
K1-5	K6-5	A 721L	AUTO OVRD AND PROP MODE CMD LO	4	138
K1-7	J27-H2	A 736	IMU TEMP ALARM AMPL PIN 5	4	461
K1-7	K5-8	A 737	IMU TEMP ALARM AMPL PIN 5	4	461
K1-8	J27-G1	A 728	IMU TEMP ALARM AMPL PIN 14	4	458
	K 2	RELAY 1015832-318			
K2-1	J5-W*	A 723R	AUTO OVRD MODE CMD HI	4	129
K2-3	J27-M5	A 732	IMU TEMP CONTROL K1 PIN 3	4	464
K2-4	J27-L1	A 726	IMU TEMP CONT K2 PIN 6	4	462
K2-5	J5-DD	A 723L	AUTO OVRD MODE CMD LO	4	136
K2-7	J2-Y	A 724	EMERG HTR CONT MOD LO	4	52
K2-7	K5-7	A 725	EMERG HTR CONT MOD LO	4	52
K2-8	J27-N6	A 731	IMU HEATER CURRENT AMPL PIN 5	4	467
K2-8	K4-3	A 733	IMU HEATER CURRENT AMPL PIN 5	4	467

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	K 3	RELAY 1015832-318			
K3-1	J5-Z*	A 744	PROP MODE CMD HI	4	132
K3-4	K4-3	A 734	IMU HEATER CURRENT AMPL PIN 5	4	467
K3-5	K14-2	A 368	PROP AND BACKUP MODE CMD LO	4	130
K3-5	K4-5	A 745	PROP AND BACKUP MODE CMD LO	4	130
K3-7	J27-M6	A 735	IMU TEMP CONTROL AMP PIN 5	4	465
	K 4	RELAY 1015832-318			
K4-1	K6-4	A 742	TMC AUTO OVRD AND PROP MODE CMD HI	4	512
K4-3	K2-8	A 733	IMU HEATER CURRENT AMPL PIN 5	4	467
K4-3	K3-4	A 734	IMU HEATER CURRENT AMPL PIN 5	4	467
K4-5	J5-X*	A 741	PROP AND BACKUP MODE CMD LO	4	130
K4-5	K3-5	A 745	PROP AND BACKUP MODE CMD LO	4	130
K4-8	K1-3	A 729	IMU TEMP CONTROL K2 PIN 5	4	466
K4-8	J27-N5	A 730	IMU TEMP CONTROL K2 PIN 5	4	466
	K 5	RELAY 1015832-318			
K5-1	J5-EE	A 722R	EMERG MODE CMD HI	4	137
K5-3	J27-G2	A 738	IMU TEMP ALARM AMP PIN 15	4	459
K5-4	J27-M1	A 727	0 VDC IMU	4	463
K5-5	J5-CC	A 722L	EMERG MODE CMD LO	4	135
K5-7	K2-7	A 725	EMERG HTR CONT MOD LO	4	52
K5-8	K1-7	A 737	IMU TEMP ALARM AMP PIN 5	4	461

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	K 6 RELAY 1015832-318				
K6-1	K1-1	A 721R	AUTO OVRD PROP AND BACKUP MODE CM HI	4	131
K6-1	K6-6	A 740	TMC AUTO OVRD AND PROP MODE CMD HI	4	131
K6-4	K4-1	A 742	TMC AUTO OVRD AND PROP MODE CMD HI	4	512
K6-5	K1-5	A 721L	AUTO OVRD AND PROP MODE CMD LO	4	138
K6-6	K6-1	A 740	TMC AUTO OVRD AND PROP MODE CMD HI	4	131
K6-6	J5-Y*	A 743	AUTO OVRD PROP AND BACKUP MODE CMD HI	4	131
	K13 RELAY 1015914-001				
K13-1	J14-C	A 616L	3200 CPS 2V LO	4	293
K13-2	TB1-12C	A 611L	3200 CPS 2V LO	4	126
K13-3	J1-S	A 614L	3200 CPS 2V LO	4	25
K13-3	J14-B*	A 615L	3200 CPS 2V LO	4	25
K13-4	J12-E*	A 608R	DUCO EXC SWITCHING CMD HI	4	236
K13-5	J1-R	A 614R	3200 CPS 2V HI	4	24
K13-5	J14-A*	A 615R	3200 CPS 2V HI	4	24
K13-6	TB1-11A	A 611R	3200 CPS 2V HI	4	125
K13-7	J14-A	A 616R	3200 CPS 2V HI	4	292
K13-8	J12-B*	A 618L	3000 CPS 2V FDBK LC	4	234
K13-9	J21-G3	A 619L	3200 CPS 2V FDBK LC	4	269
K13-10	J1-U	A 617L	3200 CPS 2V FDBK LC	4	27
K13-11	J12-F*	A 608L	DUCO EXC SWITCHING CMD LO	4	237
K13-12	J1-T	A 617R	3200 CPS 2V FDBK HI	4	26
K13-13	J21-F3	A 619R	3200 CPS 2V FDBK HI	4	268
K13-14	J12-A*	A 618R	3200 CPS 2V FDBK HI	4	233

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	K14 RELAY 1015837-001				
K14-1	J11-W*	A 369	WHEELS DISABLE CMD	4	216
K14-2	K3-5	A 368	PROP AND BACKUP MODE CMD LO	4	130
K14-3	J14-T	A 821L	800 CPS 28V 5 PCT IMU WHL LO	4	298
K14-4	J22-R1	A 371L	800 CPS 28V 5 PCT IMU WHL LO	4	230
K14-5	J2-B	A 372L	800 CPS 28V 5 PCT IMU WHL LO	4	37
K14-6	J14-U	A 821Y	800 CPS 28V 5 PCT IMU WHL PH B	4	299
K14-7	J22-P2	A 371Y	800 CPS 28V 5 PCT IMU WHL PHASE B	4	229
K14-8	J2-C	A 372Y	800 CPS 28V 5 PCT IMU WHL PHASE B	4	38
K14-9	J14-V	A 821R	800 CPS 28V 5 PCT IMU WHL PH A	4	300
K14-10	J22-P1	A 371R	800 CPS 28V 5 PCT IMU WHL PHASE A	4	228
K14-11	J2-A	A 372R	800 CPS 28V 5 PCT IMU WHL PHASE A	4	36
	SHLD SHIELD GROUND				
SHLD A1	J13-A	A 1A	G CDU ENCODER COMMON		25C P DIFFERENT
SHLD A1	J25-C1	A 1B	IG CDU ENCODER COMMON		259
SHLD A2	J13-S	A 2A	MG CDU ENCODER COMMON		262
SHLD A2	J25-F2	A 2B	MG CDU ENCODER COMMON		262
SHLD A3	J13-T	A 3A	OG CDU ENCODER COMMON		267
SHLD A3	J25-C3	A 3B	OG CDU ENCODER COMMON		267
SHLD A4	TB1-40A	A 4B	IG DAC MDA SIGNAL LC		1
SHLD A4	J10-E2	A 4X	IG DAC MDA SIGNAL LC		1
SHLD A5	TB1-40B	A 5B	IG DAC MDA SIGNAL LC		1
SHLD A5	J10-F2	A 5X	IG DAC MDA SIGNAL LC		1
SHLD A6	TB1-40C	A 6B	IG DAC MDA SIGNAL LC		1
SHLD A6	J9-A2	A 6X	IG DAC MDA SIGNAL LC		1
SHLD A7	TB1-40D	A 7B	IG DAC MDA SIGNAL LC		1
SHLD A7	J9-B2	A 7X	IG DAC MDA SIGNAL LC		1
SHLD A13	E27	A 13B	SHIELD GRD		7
SHLD A14	TB1-42A	A 14B	MG DAC MDA SIGNAL LC		3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A14	J10-G2	A 14X	MG DAC MDA SIGNAL LC		3
SHLD A15	TB1-42B	A 15B	MG DAC MDA SIGNAL LC		3
SHLD A15	J10-J2	A 15X	MG DAC MDA SIGNAL LC		3
SHLD A16	TB1-42C	A 16B	MG DAC MDA SIGNAL LC		3
SHLD A16	J9-C2	A 16X	MG DAC MDA SIGNAL LC		3
SHLD A17	TB1-42D	A 17B	MG DAC MDA SIGNAL LC		3
SHLD A17	J9-D2	A 17X	MG DAC MDA SIGNAL LC		3
SHLD A22	E27	A 22B	SHIELD GRD		7
SHLD A23	TB1-44A	A 23B	OG DAC MDA SIGNAL LC		5
SHLD A23	J10-K2	A 23X	OG DAC MDA SIGNAL LC		5
SHLD A24	TB1-44B	A 24B	OG DAC MDA SIGNAL LC		5
SHLD A24	J10-H2	A 24X	OG DAC MDA SIGNAL LC		5
SHLD A25	TB1-44C	A 25B	OG DAC MDA SIGNAL LC		5
SHLD A25	J9-E2	A 25X	OG DAC MDA SIGNAL LC		5
SHLD A26	TB1-44D	A 26B	OG DAC MDA SIGNAL LC		5
SHLD A26	J9-F2	A 26X	OG DAC MDA SIGNAL LC		5
SHLD A33	E27	A 33B	SHIELD GRD		7
SHLD A36	E20	A 36B	SHIELD GRD		7
SHLD A37	E20	A 37B	SHIELD GRD		7
SHLD A38	E20	A 38B	SHIELD GRD		7
SHLD A39	E20	A 39B	SHIELD GRD		7
SHLD A40	E19	A 40B	SHIELD GRD		7
SHLD A41	E19	A 41B	SHIELD GRD		7
SHLD A42	TB1-46A	A 42B	COMPUTER RETURN		169
SHLD A42	J8-E2	A 42X	COMPUTER RETURN		169
SHLD A43	TB1-46B	A 43B	COMPUTER RETURN		169
SHLD A43	J8-F2	A 43X	COMPUTER RETURN		169
SHLD A44	TB1-46C	A 44B	COMPUTER RETURN		169
SHLD A44	J8-G2	A 44X	COMPUTER RETURN		169
SHLD A45	TB1-46D	A 45B	COMPUTER RETURN		169
SHLD A45	J8-J2	A 45X	COMPUTER RETURN		169
SHLD A46	TB1-46A	A 46B	COMPUTER RETURN		169

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A46	J8-K2	A 46X	COMPUTER RETURN		169
SHLD A47	TB1-46B	A 47B	COMPUTER RETURN		169
SHLD A47	J8-H2	A 47X	COMPUTER RETURN		169
SHLD A52	E23	A 52A	SHIELD GRD		7
SHLD A53	E19	A 53B	SHIELD GRD		7
SHLD A54	E23	A 54A	SHIELD GRD		7
SHLD A55	E19	A 55B	SHIELD GRD		7
SHLD A73	E21	A 73B	SHIELD GRD		7
SHLD A74	E21	A 74B	SHIELD GRD		7
SHLD A75	E21	A 75B	SHIELD GRD		7
SHLD A76	E21	A 76B	SHIELD GRD		7
SHLD A78	E21	A 78B	SHIELD GRD		7
SHLD A79	E21	A 79B	SHIELD GRD		7
SHLD A80	E21	A 80B	SHIELD GRD		7
SHLD A81	E21	A 81B	SHIELD GRD		7
SHLD A82	E16	A 82A	SHIELD GRD		7
SHLD A84	E21	A 84B	SHIELD GRD		7
SHLD A116	E24	A 116A	SHIELD GRD		7
SHLD A117	E30	A 117A	SHIELD GRD		7
SHLD A118	E24	A 118A	SHIELD GRD		7
SHLD A119	E30	A 119A	SHIELD GRD		7
SHLD A120	E12	A 120B	SHIELD GRD		7
SHLD A121	E12	A 121B	SHIELD GRD		7
SHLD A126	E12	A 126B	SHIELD GRD		7
SHLD A127	E12	A 127B	SHIELD GRD		7
SHLD A128	E12	A 128B	SHIELD GRD		7
SHLD A130	E28	A 130A	SHIELD GRD		7
SHLD A131	E27	A 131A	SHIELD GRD		7
SHLD A132	E27	A 132A	SHIELD GRD		7
SHLD A133	E22	A 133A	SHIELD GRD		7
SHLD A135	E22	A 135A	SHIELD GRD		7
SHLD A136	E16	A 136A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A137	E27	A 137A	SHIELD GRD		7
SHLD A138	E27	A 138A	SHIELD GRD		7
SHLD A139	E22	A 139B	SHIELD GRD		7
SHLD A140	E27	A 140A	SHIELD GRD		7
SHLD A142	E22	A 142B	SHIELD GRD		7
SHLD A143	E16	A 143A	SHIELD GRD		7
SHLD A144	E27	A 144A	SHIELD GRD		7
SHLD A145	E27	A 145A	SHIELD GRD		7
SHLD A146	E17	A 146A	SHIELD GRD		7
SHLD A148	E17	A 148A	SHIELD GRD		7
SHLD A149	E27	A 149A	SHIELD GRD		7
SHLD A151	E22	A 151A	SHIELD GRD		7
SHLD A152	E16	A 152A	SHIELD GRD		7
SHLD A153	E28	A 153A	SHIELD GRD		7
SHLD A154	E28	A 154A	SHIELD GRD		7
SHLD A155	E28	A 155A	SHIELD GRD		7
SHLD A156	E28	A 156A	SHIELD GRD		7
SHLD A157	E16	A 157B	SHIELD GRD		7
SHLD A158	E16	A 158B	SHIELD GRD		7
SHLD A159	E16	A 159B	SHIELD GRD		7
SHLD A164	E24	A 164A	SHIELD GRD		7
SHLD A165	E16	A 165B	SHIELD GRD		7
SHLD A166	E24	A 166A	SHIELD GRD		7
SHLD A167	E16	A 167B	SHIELD GRD		7
SHLD A168	E23	A 168A	SHIELD GRD		7
SHLD A169	E16	A 169A	SHIELD GRD		7
SHLD A170	E23	A 170A	SHIELD GRD		7
SHLD A171	E16	A 171A	SHIELD GRD		7
SHLD A172	E23	A 172A	SHIELD GRD		7
SHLD A173	E16	A 173A	SHIELD GRD		7
SHLD A174	E23	A 174A	SHIELD GRD		7
SHLD A175	E17	A 175A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A182	TB1-52C	A 182A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A182	TB1-18A	A 182B	COMPUTER 800 PPS SYNC RETURN		7
SHLD A183	TB1-52D	A 183A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A183	TB1-18D	A 183B	COMPUTER 800 PPS SYNC RETURN		7
SHLD A184	TB1-18B	A 184A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A184	J7-B2	A 184X	COMPUTER 800 PPS SYNC RETURN		7
SHLD A185	TB1-18B	A 185A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A185	J7-A2	A 185X	COMPUTER 800 PPS SYNC RETURN		7
SHLD A187	E17	A 187B	SHIELD GRD		7
SHLD A188	E17	A 188B	SHIELD GRD		7
SHLD A189	E17	A 189B	SHIELD GRD		7
SHLD A190	E17	A 190B	SHIELD GRD		7
SHLD A191	E17	A 191B	SHIELD GRD		7
SHLD A192	E17	A 192B	SHIELD GRD		7
SHLD A193	E18	A 193B	SHIELD GRD		7
SHLD A194	E18	A 194B	SHIELD GRD		7
SHLD A195	E18	A 195B	SHIELD GRD		7
SHLD A201	E18	A 201A	SHIELD GRD		7
SHLD A202	E18	A 202B	SHIELD GRD		7
SHLD A203	E18	A 203B	SHIELD GRD		7
SHLD A204	E18	A 204B	SHIELD GRD		7
SHLD A205	E18	A 205B	SHIELD GRD		7
SHLD A206	E18	A 206B	SHIELD GRD		7
SHLD A207	E18	A 207B	SHIELD GRD		7
SHLD A209	E15	A 209B	SHIELD GRD		7
SHLD A210	E15	A 210B	SHIELD GRD		7
SHLD A211	E15	A 211B	SHIELD GRD		7
SHLD A212	E15	A 212B	SHIELD GRD		7
SHLD A213	E23	A 213A	SHIELD GRD		7
SHLD A214	E15	A 214B	SHIELD GRD		7
SHLD A215	E23	A 215A	SHIELD GRD		492
SHLD A220	J31-S	A 220A	SCT TRUN TACH LO		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A220	J29-B1	A 220B	SCT TRUN TACH LO		492
SHLD A221	J31-P	A 221A	SCT TRUN 1 X RSVR S2		493
SHLD A221	J29-C1	A 221B	SCT TRUN 1 X RSVR S2		493
SHLD A222	TB3-16A	A 222A	SHIELD GRD		7
SHLD A223	J19-Z	A 223A	TRUN CDU 1/2 X RSVR S3		409
SHLD A223	J29-H1	A 223B	TRUN CDU 1/2 X RSVR S3		409
SHLD A224	TB3-16C	A 224A	SHIELD GRD		7
SHLD A225	E8	A 225B	SHIELD GRD		7
SHLD A226	J19-EE	A 226A	TRUN CDU 16 X RSVR S3		419
SHLD A226	J29-B4	A 226B	TRUN CDU 16 X RSVR S3		419
SHLD A227	J19-X*	A 227A	TRUN CDU TACH LO		422
SHLD A227	J29-B6	A 227B	TRUN CDU TACH LO		422
SHLD A228	E12	A 228A	SHIELD GRD		7
SHLD A229	E30	A 229A	SHIELD GRD		7
SHLD A230	E30	A 230A	SHIELD GRD		7
SHLD A232	E8	A 232B	SHIELD GRD		7
SHLD A233	E30	A 233A	SHIELD GRD		7
SHLD A235	J18-BB	A 235A	SHAFT CDU 16 X RSVR S3		389
SHLD A235	J29-B7	A 235B	SHAFT CDU 16 X RSVR S3		389
SHLD A236	J18-X*	A 236A	SHAFT CDU TACH LO		397
SHLD A236	J29-B9	A 236B	SHAFT CDU TACH LO		397
SHLD A237	E12	A 237A	SHIELD GRD		7
SHLD A245	E8	A 245B	SHIELD GRD		7
SHLD A246	E8	A 246B	SHIELD GRD		7
SHLD A247	E8	A 247B	SHIELD GRD		7
SHLD A248	E8	A 248B	SHIELD GRD		7
SHLD A249	E8	A 249B	SHIELD GRD		7
SHLD A250	E8	A 250B	SHIELD GRD		7
SHLD A254	J32-LL	A 254A	PHOTOMETER SIG LO		501
SHLD A254	J30-B9	A 254B	PHOTOMETER SIG LO		501
SHLD A255	E7	A 255B	SHIELD GRD		7
SHLD A256	E25	A 256A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A259	E25	A 259A	SHIELD GRD		7
SHLD A261	TB1-22D	A 261B	COMPUTER 102.4 KPPS SYNC RET		164
SHLD A261	J8-A2	A 261X	COMPUTER 102.4 KPPS SYNC RET.		164
SHLD A263	TB1-22C	A 263A	COMPUTER 102.4 KPPS SYNC RET		164
SHLD A263	J30-C3	A 263B	COMPUTER 102.4 KPPS SYNC RET		164
SHLD A268	E7	A 268A	SHIELD GRD		7
SHLD A269	E28	A 269A	SHIELD GRD		7
SHLD A271	E7	A 271A	SHIELD GRD		7
SHLD A272	E7	A 272A	SHIELD GRD		7
SHLD A273	E12	A 273A	SHIELD GRD		7
SHLD A279	E23	A 279A	SHIELD GRD		7
SHLD A280	E23	A 280A	SHIELD GRD		7
SHLD A281	E23	A 281A	SHIELD GRD		7
SHLD A282	E23	A 282A	SHIELD GRD		7
SHLD A288	E7	A 288A	SHIELD GRD		7
SHLD A289	E25	A 289A	SHIELD GRD		7
SHLD A290	E25	A 290A	SHIELD GRD		7
SHLD A291	E25	A 291A	SHIELD GRD		7
SHLD A294	E7	A 294A	SHIELD GRD		7
SHLD A295	E19	A 295B	SHIELD GRD		7
SHLD A297	TB1-33C	A 297B	0 VDC IMU		7
SHLD A297	J9-J2	A 297X	0 VDC IMU		7
SHLD A298	TB1-33D	A 298B	0 VDC IMU		7
SHLD A298	J9-G2	A 298X	0 VDC IMU		7
SHLD A299	TB1-34C	A 299B	0 VDC IMU		7
SHLD A299	J9-H2	A 299X	0 VDC IMU		7
SHLD A300	TB1-34D	A 300B	0 VDC IMU		7
SHLD A300	J9-K2	A 300X	0 VDC IMU		7
SHLD A301	TB1-35C	A 301B	0 VDC IMU		7
SHLD A301	J10-B2	A 301X	0 VDC IMU		7
SHLD A302	TB1-35D	A 302B	0 VDC IMU		7
SHLD A302	J10-A2	A 302X	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD	A308	E19	A 308B SHIELD GRD		7
SHLD	A309	E19	A 309B SHIELD GRD		7
SHLD	A315	TB1-30A	A 315B 0 VDC IMU		7
SHLD	A315	J6-B2	A 315X 0 VDC IMU		7
SHLD	A316	TB1-30B	A 316B 0 VDC IMU		7
SHLD	A316	J10-C2	A 316X 0 VDC IMU		7
SHLD	A319	TB1-37B	A 319B 0 VDC IMU		7
SHLD	A319	J6-A2	A 319X 0 VDC IMU		7
SHLD	A320	E19	A 320B SHIELD GRD		7
SHLD	A335	E7	A 335A SHIELD GRD		7
SHLD	A336	E7	A 336A SHIELD GRD		7
SHLD	A338	E20	A 338A SHIELD GRD		7
SHLD	A339	E20	A 339A SHIELD GRD		7
SHLD	A345	E20	A 345B SHIELD GRD		7
SHLD	A346	E20	A 346B SHIELD GRD		7
SHLD	A349	E20	A 349B SHIELD GRD		7
SHLD	A350	E26	A 350A SHIELD GRD		7
SHLD	A351	E26	A 351A SHIELD GRD		7
SHLD	A352	E26	A 352A SHIELD GRD		7
SHLD	A357	TB1-25C	A 357B COMPUTER 25.6 KPPS SYNC RET		7
SHLD	A357	J7-E2	A 357X COMPUTER 25.6 KPPS SYNC RET		7
SHLD	A358	TB1-25D	A 358B COMPUTER 25.6 KPPS SYNC RET		7
SHLD	A358	J7-F2	A 358X COMPUTER 25.6 KPPS SYNC RET		7
SHLD	A360	E26	A 360A SHIELD GRD		7
SHLD	A361	E26	A 361A SHIELD GRD		7
SHLD	A362	E26	A 362A SHIELD GRD		7
SHLD	A367	E26	A 367A SHIELD GRD		7
SHLD	A370	E22	A 370B SHIELD GRD		7
SHLD	A371	E22	A 371A SHIELD GRD		7
SHLD	A372	E29	A 372B SHIELD GRD		7
SHLD	A382	TB1-6A	A 382B COMPUTER 3200 PPS SYNC RET		7
SHLD	A382	J7-D2	A 382X COMPUTER 3200 PPS SYNC RET		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD	A383	TB1-6D	A 383B COMPUTER 3200 PPS SYNC RET		7
SHLD	A383	J7-C2	A 383X COMPUTER 3200 PPS SYNC RET		7
SHLD	A386	E26	A 386A SHIELD GRD		7
SHLD	A387	E14	A 387B SHIELD GRD		7
SHLD	A389	E25	A 389A SHIELD GRD		7
SHLD	A390	E14	A 390B SHIELD GRD		7
SHLD	A392	E25	A 392A SHIELD GRD		7
SHLD	A393	E14	A 393B SHIELD GRD		7
SHLD	A397	TB2-28C	A 397B TRUN DELTA THETA CMC COMMON		145
SHLD	A397	J6-E2	A 397X TRUN DELTA THETA CMC COMMON		145
SHLD	A398	TB2-28D	A 398B TRUN DELTA THETA CMC COMMON		145
SHLD	A398	J6-F2	A 398X TRUN DELTA THETA CMC COMMON		145
SHLD	A400	TB2-29C	A 400B SHAFT DELTA THETA CMD COMMON		142
SHLD	A400	J6-C2	A 400X SHAFT DELTA THETA CMD COMMON		142
SHLD	A401	TB2-29D	A 401B SHAFT DELTA THETA CMD COMMON		142
SHLD	A401	J6-D2	A 401X SHAFT DELTA THETA CMD COMMON		142
SHLD	A455	E22	A 455A SHIELD GRD		7
SHLD	A466	E8	A 466B SHIELD GRD		7
SHLD	A469	E12	A 469A SHIELD GRD		7
SHLD	A470	E8	A 470B SHIELD GRD		7
SHLD	A473	E8	A 473B SHIELD GRD		7
SHLD	A611	E22	A 611A SHIELD GRD		7
SHLD	A612	E22	A 612B SHIELD GRD		7
SHLD	A613	E22	A 613B SHIELD GRD		7
SHLD	A614	E29	A 614A SHIELD GRD		7
SHLD	A615	E29	A 615A SHIELD GRD		7
SHLD	A616	E28	A 616B SHIELD GRD		7
SHLD	A617	E23	A 617A SHIELD GRD		7
SHLD	A618	E29	A 618A SHIELD GRD		7
SHLD	A619	E29	A 619A SHIELD GRD		7
SHLD	A620	E22	A 620A SHIELD GRD		7
SHLD	A622	E25	A 622A SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD	A624	TB2-55D	A 624A STAR PRESENCE INPUT LO		150
SHLD	A625	TB5-21	A 625B STAR PRESENCE OUTPUT LO		150
SHLD	A625	J6-K2	A 625X STAR PRESENCE LO		150
SHLD	A627	J48	A 627A STAR PRESENCE TEST LO		150
SHLD	A627	TB5-21	A 627B STAR PRESENCE OUTPUT LO		150
SHLD	A628	E9	A 628A 0 VDC IMU		7
SHLD	A629	TB5-3	A 629B ACCEL FAIL RET		7
SHLD	A629	J8-D2	A 629X ACCEL FAIL RET		7
SHLD	A631	E9	A 631A 0 VDC IMU		7
SHLD	A632	TB5-9	A 632B CDU FAIL RET		7
SHLD	A632	J8-C2	A 632X CDU FAIL RET		7
SHLD	A634	J42	A 634A CDU FAIL TEST LO		7
SHLD	A634	TB5-9	A 634B CDU FAIL TEST LO		7
SHLD	A635	E9	A 635A 0 VDC IMU		7
SHLD	A636	TB5-15	A 636B IMU FAIL RET		7
SHLD	A636	J8-B2	A 636X IMU FAIL RET		7
SHLD	A638	J44	A 638A IMU FAIL TEST LO		7
SHLD	A638	TB5-15	A 638B IMU FAIL TEST LO		7
SHLD	A641	TB1-28D	A 641B 0 VDC IMU		7
SHLD	A641	J10-C2	A 641X 0 VDC IMU		7
SHLD	A642	E21	A 642A SHIELD GRD		7
SHLD	A665	TB3-12C	A 665A 400 CPS SHIELD GRD		8
SHLD	A666	TB3-12B	A 666A 400 CPS SHIELD GRD		8
SHLD	A667	TB3-12C	A 667A 400 CPS SHIELD GRD		8
SHLD	A668	TB3-12A	A 668A 400 CPS SHIELD GRD		8
SHLD	A669	TB3-12B	A 669A 400 CPS SHIELD GRD		8
SHLD	A670	TB3-12C	A 670A 400 CPS SHIELD GRD		8
SHLD	A696	J18-U*	A 696A SHAFT CDU ENCODER COMMON		395
SHLD	A696	J27-C9	A 696B SHAFT CDU ENCODER COMMON		395
SHLD	A697	J19-G*	A 697A TRUN CDU ENCODER COMMON		414
SHLD	A697	J27-A7	A 697B TRUN CDU ENCODER COMMON		414
SHLD	A700	TB2-6A	A 700B SHAFT ENCODER DELTA THETA OUTPUT COM		160

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD	A700	J7-K2	A 700X SHAFT ENCODER DELTA THETA OUTPUT COM		160
SHLD	A701	TB2-6B	A 701B SHAFT ENCODER DELTA THETA OUTPUT COM		160
SHLD	A701	J7-H2	A 701X SHAFT ENCODER DELTA THETA OUTPUT COM		160
SHLD	A704	TB2-6C	A 704B TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD	A704	J7-G2	A 704X TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD	A705	TB2-6D	A 705B TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD	A705	J7-J2	A 705X TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD	A707	E15	A 707B SHIELD GRD		7
SHLD	A708	E7	A 708A SHIELD GRD		7
SHLD	A711	E7	A 711A SHIELD GRD		7
SHLD	A746	E15	A 746B SHIELD GRD		7
SHLD	A753	E26	A 753A SHIELD GRD		7
SHLD	A754	E15	A 754B SHIELD GRD		7
SHLD	A763	E21	A 763A SHIELD GRD		7
SHLD	A764	E21	A 764A SHIELD GRD		7
SHLD	A765	E21	A 765A SHIELD GRD		7
SHLD	A766	E21	A 766A SHIELD GRD		7
SHLD	A770	E25	A 770A SHIELD GRD		7
SHLD	A771	E13	A 771A SHIELD GRD		7
SHLD	A772	J32-Z*	A 772A SXT SHAFT 16 X RSVR S4		388
SHLD	A772	TB2-14A	A 772B SXT SHAFT 16 X RSVR S4		388
SHLD	A773	J18-AA	A 773A SXT SHAFT 16 X RSVR S4		388
SHLD	A773	TB2-14C	A 773B SXT SHAFT 16 X RSVR S4		388
SHLD	A775	J32-J	A 775A SXT SHAFT TACH LO		473
SHLD	A775	J28-B7	A 775B SXT SHAFT TACH LO		473
SHLD	A777	E14	A 777B SHIELD GRD		7
SHLD	A782	E14	A 782A SHIELD GRD		7
SHLD	A783	E14	A 783A SHIELD GRD		7
SHLD	A787	E14	A 787A SHIELD GRD		7
SHLD	A788	E14	A 788A SHIELD GRD		7
SHLD	A791	E14	A 791A SHIELD GRD		7
SHLD	A792	E14	A 792A SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				417
SHLD A793	J32-Y*	A 793A	SXT TRUN 64 X RSVR S2		417
SHLD A793	TB2-20A	A 793B	SXT TRUN 64 X RSVR S2		417
SHLD A794	TB2-20C	A 794A	SXT TRUN 64 X RSVR S2		474
SHLD A794	J19-CD	A 794B	SXT TRUN 64 X RSVR S2		474
SHLD A796	J32-C*	A 796A	SXT TRUN TACH LO		7
SHLD A796	J28-B9	A 796B	SXT TRUN TACH LO		478
SHLD A799	E14	A 799A	SHIELD GRD		478
SHLD A801	J31-F*	A 801A	SCT SHAFT 1 X RSVR S4		7
SHLD A801	J28-C5	A 801B	SCT SHAFT 1 X RSVR S4		472
SHLD A804	E14	A 804A	SHIELD GRD		472
SHLD A805	J31-C*	A 805A	SCT SHAFT TACH LO		7
SHLD A805	J28-B5	A 805B	SCT SHAFT TACH LO		7
SHLD A806	E13	A 806A	SHIELD GRD		7
SHLD A807	E13	A 807A	SHIELD GRD		7
SHLD A808	E25	A 808A	SHIELD GRD		7
SHLD A809	E13	A 809A	SHIELD GRD		7
SHLD A810	E25	A 810A	SHIELD GRD		7
SHLD A811	E13	A 811A	SHIELD GRD		7
SHLD A814	J46	A 814A	ACCEL FAIL TEST LO		7
SHLD A814	TB5-3	A 814B	ACCEL FAIL TEST LO		
SHLD A822	J32-Z	A 822A	0 VDC OPTICS		
		TB1- 1	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002		
			SPARE (+28 VDC IMU)		258
TB1-1A	TB1-1B		INTERNAL BUS		258
TB1-1A	J21-S1	A 98	+28 VDC IMU		258
TB1-1B	TB1-1A		INTERNAL BUS		258
TB1-1B	TB2-41A	A 96	+28 VDC IMU		258
TB1-1B	J21-S2	A 99	+28 VDC IMU		258

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 1	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
					39
TB1-1C	TB1-1C		INTERNAL BUS		39
TB1-1C	TB2-42A	A 97	+28 VDC IMU		39
TB1-1C	J21-S4	A 100	+28 VDC IMU		39
TB1-1C			SPARE (+28 VDC IMU)		39
TB1-1C	TB1-1C		INTERNAL BUS		39
TB1-1C	J21-S5	A 101	+28 VDC IMU		
		TB1- 2	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002		
					276
TB1-2A			SPARE (IG CDU 1X ERROR SIG)		276
TB1-2A	TB1-2B		INTERNAL BUS		276
TB1-2A	J26-C2	A 133R	IG CDU 1 X ERROR SIGNAL		276
TB1-2B	TB1-2A		INTERNAL BUS		276
TB1-2B	J13-P*	A 131R	IG CDU 1 X ERROR SIGNAL		69
TB1-2B	J21-A1	A 134R	IG CDU 1 X ERROR SIGNAL		69
TB1-2C	TB1-2D		INTERNAL BUS		69
TB1-2C	J26-C2	A 133L	IG CDU ERROR SIGNAL RETURN		69
TB1-2C	J21-B1	A 134L	IG CDU ERROR SIGNAL RETURN		69
TB1-2D			SPARE (IG CDU ERROR SIG RETURN)		69
TB1-2D	TB1-2C		INTERNAL BUS		
TB1-2D	J13-C*	A 131L	IG CDU ERROR SIGNAL RETURN		
		TB1- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002		
					280
TB1-3A	TB1-3B		INTERNAL BUS		280
TB1-3A	J26-C4	A 139R	MG CDU 1 X ERROR SIGNAL		280
TB1-3A	J21-A2	A 141R	MG CDU 1 X ERROR SIGNAL		280
TB1-3B			SPARE (MG CDU 1X ERROR SIG)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-3B	TB1-3A		INTERNAL BUS		280
TB1-3B	J13-N*	A 140R	MG CDU 1 X ERROR SIGNAL		280
TB1-3C	TB1-3D		INTERNAL BUS		70
TB1-3C	J26-C4	A 139L	MG CDU ERROR SIGNAL RETURN		70
TB1-3C	J21-B2	A 141L	MG CDU ERROR SIGNAL RETURN		70
TB1-3D			SPARE (MG CDU ERROR SIG RETURN)		70
TB1-3D	TB1-3C		INTERNAL BUS		70
TB1-3D	J13-X*	A 140L	MG CDU ERROR SIGNAL RETURN		70
		TB1- 4	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002		
TB1-4A	TB1-4B		INTERNAL BUS		287
TB1-4A	J13-CG	A 149R	OG CDU 1 X ERROR SIGNAL		287
TB1-4A	J21-A3	A 150R	OG CDU 1 X ERROR SIGNAL		287
TB1-4B			SPARE (OG CDU 1X ERROR SIG)		287
TB1-4B	TB1-4A		INTERNAL BUS		287
TB1-4B	TB1-48A	A 148R	OG CDU 1 X ERROR SIGNAL		286
TB1-4C	TB1-4D		INTERNAL BUS		286
TB1-4C	J13-NH	A 149L	OG CDU ERRCR SIGNAL RETURN		286
TB1-4C	J21-B3	A 150L	OG CDU ERROR SIGNAL RETURN		286
TB1-4D			SPARE (OG CDU ERROR SIG RETURN)		286
TB1-4D	TB1-4C		INTERNAL BUS		286
TB1-4D	TB1-49A	A 148L	CG CDU ERRCR SIGNAL RETURN		286

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
		TB1- 5	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
					40
TB1-5A	TB1-5B		INTERNAL BUS		40
TB1-5A	J2-F	A 332	- 28 VDC		40
TB1-5A	J21-N6	A 333	- 28 VDC		40
TB1-5B	TB1-5A		INTERNAL BUS		40
TB1-5B	TB1-5C		INTERNAL BUS		40
TB1-5B	J24-P6	A 330	- 28 VDC		40
TB1-5B	J23-P6	A 331	- 28 VDC		40
TB1-5C			SPARE (-28 VDC)		40
TB1-5C	TB1-5B		INTERNAL BUS		40
TB1-5C	TB1-5D		INTERNAL BUS		40
TB1-5C	J21-N6	A 334	- 28 VDC		40
TB1-5C			SPARE (-28 VDC)		40
TB1-5D			SPARE (-28 VDC)		40
TB1-5D	TB1-5C		INTERNAL BUS		
		TB1- 6	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
					7
TB1-6A	TB1-6B		INTERNAL BUS		7
TB1-6A	J21-G2	A 381	0 VDC IMU		7
TB1-6A	SHLD A382	A 382B	0 VDC IMU		7
TB1-6B	TB1-6A		INTERNAL BUS		7
TB1-6B	TB1-6C		INTERNAL BUS		7
TB1-6B	J21-M5	A 384L	COMPUTER 3200 PPS SYNC RET.		7
TB1-6B	TB3-18R	A 385	0 VDC IMU		7
TB1-6C			SPARE (0 VDC IMU)		7
TB1-6C	TB1-6B		INTERNAL BUS		7
TB1-6C	TB1-6D		INTERNAL BUS		7
TB1-6C	TB3-18F	A 815	0 VDC IMU		7
TB1-6D			SPARE (0 VDC IMU)		
TB1-6D	TB1-6C		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 6	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-6D	SHLD A383	A 383B	0 VDC IMU		7
TB1- 7	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB1-7A	J7-D1	A 382E	COMPUTER 3200 PPS OUT OF PHASE SYNC		154
TB1-7A	J21-L6	A 384R	COMPUTER 3200 PPS OUT OF PHASE SYNC		154
TB1-7B	J7-C1	A 383E	COMPUTER 3200 PPS IN PHASE SYNC		153
TB1-7B	J21-M6	A 384Y	COMPUTER 3200 PPS IN PHASE SYNC		153
TB1-7C			SPARE		
TB1-7C			SPARE		
TB1-7D			SPARE		
TB1-7D			SPARE		
TB1- 8	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-8A			SPARE (0 VDC IMU)		7
TB1-8A	TB1-8B		INTERNAL BUS		7
TB1-8A	J21-S6	A 439	0 VDC IMU		7
TB1-8B	TB1-8A		INTERNAL BUS		7
TB1-8B	TB1-8C		INTERNAL BUS		7
TB1-8B	J21-P2	A 438	0 VDC IMU		7
TB1-8B	TB3-18S	A 440	0 VDC IMU		7
TB1-8C	TB1-8B		INTERNAL BUS		7
TB1-8C	TB1-8D		INTERNAL BUS		7
TB1-8C	J21-R4	A 437	0 VDC IMU		7
TB1-8C	TB3-18P	A 441	0 VDC IMU		7
TB1-8D			SPARE (0 VDC IMU)		7
TB1-8D			SPARE (0 VDC IMU)		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 8	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-8D	TB1-8C		INTERNAL BUS		7
TB1- 9	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-9A			SPARE (0 VDC IMU)		
TB1-9A	TB1-9B		INTERNAL BUS		7
TB1-9A	J21-P6	A 444	0 VDC IMU		7
TB1-9B			SPARE (0 VDC IMU)		7
TB1-9B	TB1-9A		INTERNAL BUS		7
TB1-9B	TB1-9C		INTERNAL BUS		7
TB1-9B	TB3-18Q	A 445	0 VDC IMU		7
TB1-9C			SPARE (0 VDC IMU)		7
TB1-9C	TB1-9B		INTERNAL BUS		7
TB1-9C	TB1-9D		INTERNAL BUS		7
TB1-9C	TB3-18M	A 446	0 VDC IMU		7
TB1-9D			SPARE (0 VDC IMU)		7
TB1-9D	TB1-9C		INTERNAL BUS		7
TB1-9D	J21-R1	A 443	0 VDC IMU		7
TB1-10	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-10A			SPARE (0 VDC IMU)		
TB1-10A	TB1-10B		INTERNAL BUS		7
TB1-10A	J21-R3	A 448	0 VDC IMU		7
TB1-10B	TB1-10A		INTERNAL BUS		7
TB1-10B	TB1-10C		INTERNAL BUS		7
TB1-10B	J21-R5	A 449	0 VDC IMU		7
TB1-10B	TB3-18N	A 451	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-10	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-10C			SPARE (0 VDC IMU)		7
TB1-10C	TB1-10B		INTERNAL BUS		7
TB1-10C	TB1-10D		INTERNAL BUS		7
TB1-10C	TB3-18K	A 452	0 VDC IMU		7
TB1-10D			SPARE (0 VDC IMU)		7
TB1-10D	TB1-10C		INTERNAL BUS		7
TB1-10D	J21-R6	A 450	0 VDC IMU		7
TB1-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-11A	TB1-11B		INTERNAL BUS		125
TB1-11A	J21-L1	A 610R	3200 CPS 2V HI		125
TB1-11A	K13-6	A 611R	3200 CPS 2V HI		125
TB1-11B	TB1-11A		INTERNAL BUS		125
TB1-11B	TB1-11C		INTERNAL BUS		125
TB1-11B	J21-M1	A 610L	3200 CPS 2V HI		125
TB1-11B	J12-A	A 612R	3200 CPS 2V HI		125
TB1-11C			SPARE (3200 CPS 2V HI)		125
TB1-11C	TB1-11B		INTERNAL BUS		125
TB1-11C	TB1-11D		INTERNAL BUS		125
TB1-11C	J5-P*	A 613R	3200 CPS 2V HI		125
TB1-11D			SPARE (3200 CPS 2V HI)		125
TB1-11D			SPARE (3200 CPS 2V HI)		125
TB1-11D	TB1-11C		INTERNAL BUS		125

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB1-12	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-12A			SPARE (3200 CPS 2V LO)		126
TB1-12A			SPARE (3200 CPS 2V LO)		126
TB1-12A	TB1-12B		INTERNAL BUS		126
TB1-12B	TB1-12A		INTERNAL BUS		126
TB1-12B	TB1-12C		INTERNAL BUS		126
TB1-12B	J12-C	A 612L	3200 CPS 2V LO		126
TB1-12B	J5-Q*	A 613L	3200 CPS 2V LO		126
TB1-12C	TB1-12B		INTERNAL BUS		126
TB1-12C	TB1-12D		INTERNAL BUS		126
TB1-12C	J21-L2	A 610Y	3200 CPS 2V LO		126
TB1-12C	K13-2	A 611L	3200 CPS 2V LO		126
TB1-12D	TB1-12C		INTERNAL BUS		126
TB1-12D	J21-M2	A 610K	3200 CPS 2V LO		126
TB1-12D	J22-K2	A 621	3200 CPS 2V LO		126
TB1-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-13A	TB1-13B		INTERNAL BUS		232
TB1-13A	J22-N5	A 72R	25.6 KC HI IMU		232
TB1-13A	J12-I*	A 73R	25.6 KC HI IMU		232
TB1-13B	TB1-13A		INTERNAL BUS		232
TB1-13B	TB1-13C		INTERNAL BUS		232
TB1-13B	J12-V	A 74R	25.6 KC HI IMU		232
TB1-13B	J14-F*	A 75R	25.6 KC HI IMU		232
TB1-13C			SPARE (25.6 KC HI IMU)		232
TB1-13C	TB1-13B		INTERNAL BUS		232
TB1-13C	TB1-13D		INTERNAL BUS		232
TB1-13C	J25-N6	A 76R	25.6 KC HI IMU		232
TB1-13D			SPARE (25.6 KC HI IMU)		232
TB1-13D			SPARE (25.6 KC HI IMU)		232

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-13D	TB1-13C		INTERNAL BUS		232
TB1-14	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-14A	TB1-14B		INTERNAL BUS		7
TB1-14A	J22-P5	A 72L	25.6 KC LO IMU		7
TB1-14A	J12-J*	A 73L	25.6 KC LO IMU		7
TB1-14B	TB1-14A		INTERNAL BUS		7
TB1-14B	TB1-14C		INTERNAL BUS		7
TB1-14B	J12-W	A 74L	25.6 KC LO IMU		7
TB1-14B	TB1-28B	A 647	0 VDC IMU		7
TB1-14C			SPARE (25.6 KC LO IMU)		7
TB1-14C	TB1-14B		INTERNAL BUS		7
TB1-14C	TB1-14D		INTERNAL BUS		7
TB1-14C	J14-G*	A 75L	25.6 KC LO IMU		7
TB1-14D			SPARE (25.6 KC LO IMU)		7
TB1-14D	TB1-14C		INTERNAL BUS		7
TB1-14D	J25-N5	A 76L	25.6 KC LO IMU		7
TB1-15	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-15A	TB1-15B		INTERNAL BUS		10
TB1-15A	J22-N3	A 77R	800 CPS 28V 1 PCT HI IMU		10
TB1-15A	J12-T	A 78R	800 CPS 28V 1 PCT HI IMU		10
TB1-15B	TB1-15A		INTERNAL BUS		10
TB1-15B	TB1-15C		INTERNAL BUS		10
TB1-15B	J25-P6	A 80R	800 CPS 28V 1 PCT HI IMU		10
TB1-15B	J21-N5	A 83R	800 CPS 28V 1 PCT HI IMU		10

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-15	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-15C	TB1-15B		INTERNAL BUS		10
TB1-15C	TB1-15D		INTERNAL BUS		10
TB1-15C	J26-S4	A 81R	800 CPS 28V 1 PCT HI IMU		10
TB1-15C	J30-F9	A 84R	800 CPS 28V 1 PCT HI IMU		10
TB1-15D			SPARE (800 CPS 28V 1 PCT HI IMU)		10
TB1-15D	TB1-15C		INTERNAL BUS		10
TB1-15D	J14-H*	A 79R	800 CPS 28V 1 PCT HI IMU		10
TB1-16	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-16A	TB1-16B		INTERNAL BUS		231
TB1-16A	J22-P3	A 77L	800 CPS 28V 1 PCT LC IMU		231
TB1-16A	J12-U	A 78L	800 CPS 28V 1 PCT LC IMU		231
TB1-16B	TB1-16A		INTERNAL BUS		231
TB1-16B	TB1-16C		INTERNAL BUS		231
TB1-16B	J25-P5	A 80L	800 CPS 28V 1 PCT LC IMU		231
TB1-16B	J21-N4	A 83L	800 CPS 28V 1 PCT LC IMU		231
TB1-16C	TB1-16B		INTERNAL BUS		231
TB1-16C	TB1-16D		INTERNAL BUS		231
TB1-16C	J26-S3	A 81L	800 CPS 28V 1 PCT LC IMU		231
TB1-16C	J30-F8	A 84L	800 CPS 28V 1 PCT LC IMU		231
TB1-16D			SPARE (800 CPS 28V 1 PCT LO IMU)		231
TB1-16D	TB1-16C		INTERNAL BUS		231
TB1-16D	J14-I*	A 79L	800 CPS 28V 1 PCT LC IMU		231

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB1-17	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-17A			SPARE (+28 VDC IMU)		258
TB1-17A	TB1-17B		INTERNAL BUS		258
TB1-17A	J22-S3	A 108	+28 VDC IMU		258
TB1-17B	TB1-17A		INTERNAL BUS		258
TB1-17B	TB1-17C		INTERNAL BUS		258
TB1-17B	TB2-41D	A 102	+28 VDC IMU		258
TB1-17B	J22-S1	A 106	+28 VDC IMU		258
TB1-17C	TB1-17B		INTERNAL BUS		258
TB1-17C	TB1-17D		INTERNAL BUS		258
TB1-17C	TB2-41C	A 103	+28 VDC IMU		258
TB1-17C	J22-S2	A 107	+28 VDC IMU		258
TB1-17D			SPARE (+28 VDC IMU)		258
TB1-17D	TB1-17C		INTERNAL BUS		258
TB1-17D	J22-S4	A 109	+28 VDC IMU		258
TB1-18	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-18A	TB1-18B		INTERNAL BUS		7
TB1-18A	SHLD A182	A 182B	COMPUTER 800 PPS SYNC RETURN		7
TB1-18A	J22-F1	A 186L	COMPUTER 800 PPS SYNC RETURN		7
TB1-18B	TB1-18A		INTERNAL BUS		7
TB1-18B	TB1-18C		INTERNAL BUS		7
TB1-18B	SHLD A184	A 184A	COMPUTER 800 PPS SYNC RETURN		7
TB1-18B	SHLD A185	A 185A	COMPUTER 800 PPS SYNC RETURN		7
TB1-18C			SPARE (0 VDC IMU)		7
TB1-18C	TB1-18B		INTERNAL BUS		7
TB1-18C	TB1-18D		INTERNAL BUS		7
TB1-18C	TB1-27D	A 652	0 VDC IMU		7
TB1-18D			SPARE (0 VDC IMU)		7
TB1-18D	TB1-18C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-18	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-18D	SHLD A183	A 183B	COMPUTER 800 PPS SYNC RETURN		7
TB1-19	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-19A	TB1-19B		INTERNAL BUS		152
TB1-19A	TB1-52A	A 182E	COMPUTER 800 PPS OUT OF PHASE SYNC		152
TB1-19A	J22-C1	A 186R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
TB1-19B			SPARE (COMPUTER 800 PPS OUT OF PHASE SYNC)		152
TB1-19B	TB1-19A		INTERNAL BUS		152
TB1-19B	J7-B1	A 184E	COMPUTER 800 PPS OUT OF PHASE SYNC		152
TB1-19C	TB1-19D		INTERNAL BUS		151
TB1-19C	TB1-52B	A 183E	COMPUTER 800 PPS IN PHASE SYNC		151
TB1-19C	J22-C2	A 186Y	COMPUTER 800 PPS IN PHASE SYNC		151
TB1-19D			SPARE (COMPUTER 800 PPS IN PHASE SYNC)		151
TB1-19D	TB1-19C		INTERNAL BUS		151
TB1-19D	J7-A1	A 185E	COMPUTER 800 PPS IN PHASE SYNC		151
TB1-20	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-20A			SPARE (25.6 KC HI CPTICS)		344
TB1-20A	TB1-20B		INTERNAL BUS		344
TB1-20A	J27-P3	A 763R	25.6 KC HI CPTICS		344
TB1-20B	TB1-20A		INTERNAL BUS		344
TB1-20B	TB1-20C		INTERNAL BUS		344
TB1-20B	J22-P6	A 762R	25.6 KC HI CPTICS		344
TB1-20B	J18-K	A 764R	25.6 KC HI CPTICS		344
TB1-20C			SPARE (25.6 KC HI CPTICS)		344
TB1-20C	TB1-20B		INTERNAL BUS		344

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-20	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-20C	TB1-20D		INTERNAL BUS		344
TB1-20C	J19-K	A 765R	25.6 KC HI OPTICS		344
TB1-20D			SPARE (25.6 KC HI OPTICS)		344
TB1-20D	TB1-20C		INTERNAL BUS		344
TB1-20D	J16-HH	A 766R	25.6 KC HI OPTICS		344
TB1-21	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-21A			SPARE (25.6 KC LO OPTICS)		7
TB1-21A	TB1-21B		INTERNAL BUS		7
TB1-21A	J27-N3	A 763L	25.6 KC LO OPTICS		7
TB1-21B	TB1-21A		INTERNAL BUS		7
TB1-21B	TB1-21C		INTERNAL BUS		7
TB1-21B	J22-N6	A 762L	25.6 KC LO OPTICS		7
TB1-21B	J18-L	A 764L	25.6 KC LO OPTICS		7
TB1-21C			SPARE (25.6 KC LO OPTICS)		7
TB1-21C	TB1-21B		INTERNAL BUS		7
TB1-21C	TB1-21D		INTERNAL BUS		7
TB1-21C	J19-L	A 765L	25.6 KC LO OPTICS		7
TB1-21D			SPARE (25.6 KC LO OPTICS)		7
TB1-21D	TB1-21C		INTERNAL BUS		7
TB1-21D	J16-JJ	A 766L	25.6 KC LO OPTICS		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB1-22	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-22A	TB1-22B		INTERNAL BUS		163
TB1-22A	J22-K1	A 262R	COMPUTER 102.4 KPPS SYNC		163
TB1-22A	J30-F3	A 263E	102.4 KPPS INPUT HI		163
TB1-22B			SPARE (102.4 KPPS SYNC)		163
TB1-22B	TB1-22A		INTERNAL BUS		163
TB1-22B	J8-A1	A 261E	COMPUTER 102.4 KPPS SYNC		163
TB1-22C	TB1-22D		INTERNAL BUS		164
TB1-22C	J22-H1	A 262L	COMPUTER 102.4 KPPS SYNC RET		164
TB1-22C	SHLD A263	A 263A	COMPUTER 102.4 KPPS SYNC RET		164
TB1-22D			SPARE (102.4 KPPS SYNC)		164
TB1-22D	TB1-22C		INTERNAL BUS		164
TB1-22D	SHLD A261	A 261B	COMPUTER 102.4 KPPS SYNC RET		164
TB1-23	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-23A	TB1-23B		INTERNAL BUS		443
TB1-23A	J24-S3	A 327R	+ 12 VDC GYRO		443
TB1-23A	J22-M6	A 329R	+ 12 VDC GYRO		443
TB1-23B			SPARE (+12 VDC GYRO)		443
TB1-23B			SPARE (+12 VDC GYRO)		443
TB1-23B	TB1-23A		INTERNAL BUS		443
TB1-23C	TB1-23D		INTERNAL BUS		442
TB1-23C	J24-S5	A 327L	+ 32 VDC GYRO		442
TB1-23C	J22-M5	A 329L	+ 32 VDC GYRO		442
TB1-23D			SPARE (+32 VDC GYRO)		442
TB1-23D	TB1-23C		INTERNAL BUS		442
TB1-23D	J23-S3	A 328R	+ 32 VDC GYRO		442

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB1-24	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-24A	TB1-24B		INTERNAL BUS		441
TB1-24A	J24-S2	A 327Y	+ 120 VDC GYRO		441
TB1-24A	J22-L6	A 329Y	+ 120 VDC GYRO		441
TB1-24B			SPARE (+120 VDC GYRO)		441
TB1-24B	TB1-24A		INTERNAL BUS		441
TB1-24B	J23-S1	A 328L	+ 120 VDC GYRO		441
TB1-24C	TB1-24D		INTERNAL BUS		440
TB1-24C	J24-R2	A 327K	+ 12,32,120 VDC GYRO RET		440
TB1-24C	J22-K6	A 329K	+ 12,32,120 VDC GYRO RET		440
TB1-24D			SPARE (+12,32,120 VDC GYRO RET)		440
TB1-24D	TB1-24C		INTERNAL BUS		440
TB1-24D	J23-R1	A 328Y	+ 12,32,120 VDC GYRO RET		440
TB1-25	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB1-25A	J7-E1	A 357E	COMPUTER 25.6 KPPS IN PHASE SYNC		155
TB1-25A	J22-G1	A 359R	COMPUTER 25.6 KPPS IN PHASE SYNC		155
TB1-25B	J7-F1	A 358E	COMPUTER 25.6 KPPS CUT OF PHASE SYNC		156
TB1-25B	J22-G2	A 359Y	COMPUTER 25.6 KPPS CUT OF PHASE SYNC		156
TB1-25C	TB1-25D		INTERNAL BUS		7
TB1-25C	SHLD A357	A 357B	COMPUTER 25.6 KPPS SYNC RET		7
TB1-25C	J22-F2	A 359L	COMPUTER 25.6 KPPS SYNC RET		7
TB1-25D	TB1-25C		INTERNAL BUS		7
TB1-25D	SHLD A358	A 358B	COMPUTER 25.6 KPPS SYNC RET		7
TB1-25D	TB1-27A	A 651	0 VDC IMU		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB1-26	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-26A	TB1-26B		INTERNAL BUS		188
TB1-26A	J21-A3	A 639	COMPUTER 12.8 KPPS SYNC		188
TB1-26A	J22-P4	A 640	COMPUTER 12.8 KPPS SYNC		188
TB1-26B	TB1-26A		INTERNAL BLS		188
TB1-26B	J10-E1	A 641E	COMPUTER 12.8 KPPS SYNC		188
TB1-26B	J27-R3	A 642W	COMPUTER 12.8 KPPS SYNC		188
TB1-26C			SPARE		
TB1-26C			SPARE		
TB1-26C	TB1-26D		INTERNAL BUS		
TB1-26D			SPARE		
TB1-26D			SPARE		
TB1-26D	TB1-26C		INTERNAL BUS		
TB1-27	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-27A			SPARE (0 VDC IMU)		7
TB1-27A	TB1-27B		INTERNAL BUS		7
TB1-27A	TB1-25D	A 651	0 VDC IMU		7
TB1-27B	TB1-27A		INTERNAL BUS		7
TB1-27B	TB1-27C		INTERNAL BUS		7
TB1-27B	J22-R4	A 653	0 VDC IMU		7
TB1-27B	TB3-18D	A 655	0 VDC IMU		7
TB1-27C	TB1-27B		INTERNAL BUS		7
TB1-27C	TB1-27D		INTERNAL BUS		7
TB1-27C	J22-R5	A 654	0 VDC IMU		7
TB1-27C	TB3-18B	A 656	0 VDC IMU		7
TB1-27D			SPARE (0 VDC IMU)		7
TB1-27D	TB1-27C		INTERNAL BUS		7
TB1-27D	TB1-18C	A 652	0 VDC IMU		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-28 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-28A	TB1-28B		INTERNAL BUS		
TB1-28A	E9	A 645	0 VDC IMU		7
TB1-28A	E10	A 646	0 VDC IMU		7
TB1-28B	TB1-28A		INTERNAL BUS		7
TB1-28B	TB1-28C		INTERNAL BUS		7
TB1-28B	J22-R2	A 643	0 VDC IMU		7
TB1-28B	TB1-14B	A 647	0 VDC IMU		7
TB1-28C	TB1-28B		INTERNAL BUS		7
TB1-28C	TB1-28D		INTERNAL BUS		7
TB1-28C	J22-R3	A 644	0 VDC IMU		7
TB1-28C	TB3-18L	A 648	0 VDC IMU		7
TB1-28D	TB1-28C		INTERNAL BUS		7
TB1-28D	SHLD A641	A 641B	0 VDC IMU		7
TB1-28D	TB3-18J	A 649	0 VDC IMU		7
	TB1-29 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-29A	TB1-29B		INTERNAL BUS		
TB1-29A	J10-C1	A 316E	PIPA SWITCHING PULSE		187
TB1-29A	J23-N6	A 318	PIPA SWITCHING PULSE		187
TB1-29B			SPARE (PIPA SWITCHING PULSE)		187
TB1-29B	TB1-29A		INTERNAL BUS		187
TB1-29B	J24-K3	A 313	PIPA SWITCHING PULSE		187
TB1-29C	TB1-29D		INTERNAL BUS		140
TB1-29C	J6-B1	A 315E	PIPA INTERROGATE PULSE		140
TB1-29C	J23-N5	A 317	PIPA INTERROGATE PULSE		140
TB1-29D			SPARE (PIPA INTERROGATE PULSE)		140
TB1-29D	TB1-29C		INTERNAL BUS		140
TB1-29D	J24-H3	A 314	PIPA INTERROGATE PULSE		140

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-30 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-30A	TB1-30B		INTERNAL BUS		
TB1-30A	SHLD A315	A 315B	0 VDC IMU		7
TB1-30A	TB1-32A	A 341	0 VDC IMU		7
TB1-30B			SPARE (0 VDC IMU)		7
TB1-30B	TB1-30A		INTERNAL BUS		7
TB1-30B	SHLD A316	A 316B	0 VDC IMU		7
TB1-30C			SPARE		7
TB1-30C	TB1-30D		SPARE		
TB1-30D			INTERNAL BUS		
TB1-30D			SPARE		
TB1-30D	TB1-30C		INTERNAL BUS		
	TB1-31 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB1-31A	J23-D2	A 337R	X PIP ERROR MONITOR		
TB1-31A	J11-Z	A 338R	X PIP ERROR MONITOR		209
TB1-31B	J23-F2	A 337L	Y PIP ERROR MONITOR		209
TB1-31B	J11-D	A 339R	Y PIP ERROR MONITOR		196
TB1-31C			SPARE (0 VDC IMU)		196
TB1-31C	J11-E	A 339L	0 VDC IMU		7
TB1-31C	TB1-31D		INTERNAL BUS		7
TB1-31D	TB1-31C		INTERNAL BUS		7
TB1-31D	J11-A*	A 338L	0 VDC IMU		7
TB1-31D	TB1-32C	A 340	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-32 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-32A			SPARE (0 VDC IMU)		7
TB1-32A	TB1-32B		INTERNAL BUS		7
TB1-32A	TB1-30A	A 341	0 VDC IMU		7
TB1-32B	TB1-32A		INTERNAL BUS		7
TB1-32B	TB1-32C		INTERNAL BUS		7
TB1-32B	TB3-18V	A 343	0 VDC IMU		7
TB1-32B	TB3-18V	A 344	0 VDC IMU		7
TB1-32C	TB1-32B		INTERNAL BUS		7
TB1-32C	TB1-32D		INTERNAL BUS		7
TB1-32C	TB1-31D	A 340	0 VDC IMU		7
TB1-32C	J23-R6	A 342	0 VDC IMU		7
TB1-32D			SPARE (0 VDC IMU)		7
TB1-32D			SPARE (0 VDC IMU)		7
TB1-32D	TB1-32C		INTERNAL BUS		7
	TB1-33 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB1-33A	J9-J1	A 297E	+ DX GYRO RATE		
TB1-33A	J24-C1	A 305R	+ DX GYRO RATE		183
TB1-33B	J9-G1	A 298E	- DX GYRO RATE		183
TB1-33B	J24-C2	A 305L	- DX GYRO RATE		181
TB1-33C	TB1-33D		INTERNAL BUS		181
TB1-33C	SHLD A297	A 297B	0 VDC IMU		7
TB1-33C	TB1-34C	A 303	0 VDC IMU		7
TB1-33D			SPARE (0 VDC IMU)		7
TB1-33D	TB1-33C		INTERNAL BUS		7
TB1-33D	SHLD A298	A 298B	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-34 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB1-34A	J9-H1	A 299E	+ DY GYRO RATE		182
TB1-34A	J24-C3	A 306R	+ DY GYRO RATE		182
TB1-34B	J9-K1	A 300E	- DY GYRO RATE		184
TB1-34B	J24-C4	A 306L	- DY GYRO RATE		184
TB1-34C	TB1-34D		INTERNAL BUS		7
TB1-34C	SHLD A299	A 299B	0 VDC IMU		7
TB1-34C	TB1-33C	A 303	0 VDC IMU		7
TB1-34D	TB1-34C		INTERNAL BUS		7
TB1-34D	SHLD A300	A 300B	0 VDC IMU		7
TB1-34D	TB1-35C	A 304	0 VDC IMU		7
	TB1-35 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB1-35A	J10-B1	A 301E	+ DZ GYRO RATE		186
TB1-35A	J24-C5	A 307R	+ DZ GYRO RATE		186
TB1-35B	J10-A1	A 302E	- DZ GYRO RATE		185
TB1-35B	J24-C6	A 307L	- DZ GYRO RATE		185
TB1-35C	TB1-35D		INTERNAL BUS		7
TB1-35C	SHLD A301	A 301B	0 VDC IMU		7
TB1-35C	TB1-34D	A 304	0 VDC IMU		7
TB1-35D	TB1-35C		INTERNAL BUS		7
TB1-35D	SHLD A302	A 302B	0 VDC IMU		7
TB1-35D	TB1-37A	A 324	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-36 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
T81-36A	J11-F	A 320R	Z PIP ERROR MONITOR		
T81-36A	J24-H6	A 321	Z PIP ERROR MONITOR		197
T81-36B	J6-A1	A 319E	GYRO RESET PULSE		197
T81-36B	J24-K4	A 322	GYRO RESET PULSE		139
T81-36C			SPARE		139
T81-36C			SPARE		
T81-36D			SPARE		
T81-36D			SPARE		
	T81-37 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T81-37A	T81-37B		INTERNAL BUS		
T81-37A	J11-G	A 320L	0 VDC IMU		7
T81-37A	T81-35D	A 324	0 VDC IMU		7
T81-37B	T81-37A		INTERNAL BUS		7
T81-37B	T81-37C		INTERNAL BUS		7
T81-37B	SHLD A319	A 319B	0 VDC IMU		7
T81-37B	J24-R6	A 323	0 VDC IMU		7
T81-37C			SPARE (0 VDC IMU)		7
T81-37C	T81-37B		INTERNAL BUS		7
T81-37C	T81-37D		INTERNAL BUS		7
T81-37C	T83-18W	A 325	0 VDC IMU		7
T81-37D			SPARE (0 VDC IMU)		7
T81-37D	T81-37C		INTERNAL BUS		7
T81-37D	T83-18X	A 326	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-38 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
T81-38A			SPARE		
T81-38A			SPARE		
T81-38A	T81-38B		INTERNAL BUS		
T81-38B			SPARE		
T81-38B			SPARE		
T81-38B	T81-38A		INTERNAL BUS		
T81-38C			SPARE		
T81-38C			SPARE		
T81-38C	T81-38D		INTERNAL BUS		
T81-38D			SPARE		
T81-38D			SPARE		
T81-38D	T81-38C		INTERNAL BUS		
	T81-39 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
T81-39A	J10-E1	A	4E IG ENCODER + DELTA THETA		
T81-39A	J25-B4	A	8R IG ENCODER + DELTA THETA		189
T81-39B	J10-F1	A	5E IG ENCODER - DELTA THETA		189
T81-39B	J25-C4	A	8L IG ENCODER - DELTA THETA		190
T81-39C	J9-A1	A	6E IG CDU + DELTA THETA COMMAND		190
T81-39C	J25-B5	A	9R IG CDU + DELTA THETA COMMAND		175
T81-39D	J9-B1	A	7E IG CDU - DELTA THETA COMMAND		175
T81-39D	J25-C5	A	9L IG CDU - DELTA THETA COMMAND		176
					176

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-42 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T81-42A	T81-42B		INTERNAL BUS		3
T81-42A	SHLD A14	A 14B	MG DAC MDA SIGNAL LC		3
T81-42A	J25-A7	A 19	MG DAC MDA SIGNAL LC		3
T81-42B			SPARE (MG DAC MDA SIG LO)		3
T81-42B	T81-42A		INTERNAL BUS		3
T81-42B	T81-42C		INTERNAL BUS		3
T81-42B	SHLD A15	A 15B	MG DAC MDA SIGNAL LC		3
T81-42C			SPARE (MG DAC MDA SIG LO)		3
T81-42C	T81-42B		INTERNAL BUS		3
T81-42C	T81-42D		INTERNAL BUS		3
T81-42C	SHLD A16	A 16B	MG DAC MDA SIGNAL LC		3
T81-42D			SPARE (MG DAC MDA SIG LO)		3
T81-42D	T81-42C		INTERNAL BUS		3
T81-42D	SHLD A17	A 17B	MG DAC MDA SIGNAL LC		3
	T81-43 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
T81-43A	J10-K1	A	23E OG ENCODER + DELTA THETA		194
T81-43A	J25-B8	A	27R OG ENCODER + DELTA THETA		194
T81-43B	J10-H1	A	24E OG ENCODER - DELTA THETA		192
T81-43B	J25-C8	A	27L OG ENCODER - DELTA THETA		192
T81-43C	J9-E1	A	25E OG CDU + DELTA THETA COMMAND		179
T81-43C	J25-B9	A	29R OG CDU + DELTA THETA COMMAND		179
T81-43D	J9-F1	A	26E OG CDU - DELTA THETA COMMAND		180
T81-43D	J25-C9	A	29L OG CDU - DELTA THETA COMMAND		180

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-40 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T81-40A	T81-40B		INTERNAL BUS		
T81-40A	SHLD A4	A 4B	IG DAC MDA SIGNAL LC		1
T81-40A	J25-A5	A 10	IG DAC MDA SIGNAL LC		1
T81-40B			SPARE (IG DAC MDA SIG LO)		1
T81-40B	T81-40A		INTERNAL BUS		1
T81-40B	T81-40C		INTERNAL BUS		1
T81-40B	SHLD A5	A 5B	IG DAC MDA SIGNAL LC		1
T81-40C			SPARE (IG DAC MDA SIG LO)		1
T81-40C	T81-40B		INTERNAL BUS		1
T81-40C	T81-40D		INTERNAL BUS		1
T81-40C	SHLD A6	A 6B	IG DAC MDA SIGNAL LC		1
T81-40D			SPARE (IG DAC MDA SIG LO)		1
T81-40D	T81-40C		INTERNAL BUS		1
T81-40D	SHLD A7	A 7B	IG DAC MDA SIGNAL LC		1
	T81-41 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
T81-41A	J10-G1	A	14E MG ENCODER + DELTA THETA		
T81-41A	J25-B6	A	18R MG ENCODER + DELTA THETA		191
T81-41B	J10-J1	A	15E MG ENCODER - DELTA THETA		191
T81-41B	J25-C6	A	18L MG ENCODER - DELTA THETA		193
T81-41C	J9-C1	A	16E MG CDU + DELTA THETA COMMAND		193
T81-41C	J25-B7	A	28R MG CDU + DELTA THETA COMMAND		177
T81-41D	J9-D1	A	17E MG CDU - DELTA THETA COMMAND		177
T81-41D	J25-C7	A	28L MG CDU - DELTA THETA COMMAND		178
					178

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-44 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-44A	TB1-44B		INTERNAL BUS		5
TB1-44A	SHLD A23	A 23B	OG DAC MDA SIGNAL LC		5
TB1-44A	J25-A9	A 30	OG DAC MDA SIGNAL LC		5
TB1-44B			SPARE (OG DAC MDA SIG LO)		5
TB1-44B	TB1-44A		INTERNAL BUS		5
TB1-44B	TB1-44C		INTERNAL BUS		5
TB1-44B	SHLD A24	A 24B	OG DAC MDA SIGNAL LC		5
TB1-44C			SPARE (OG DAC MDA SIG LO)		5
TB1-44C	TB1-44B		INTERNAL BUS		5
TB1-44C	TB1-44D		INTERNAL BUS		5
TB1-44C	SHLD A25	A 25B	OG DAC MDA SIGNAL LC		5
TB1-44D			SPARE (OG DAC MDA SIG LO)		5
TB1-44D	TB1-44C		INTERNAL BUS		5
TB1-44D	SHLD A26	A 26B	OG DAC MDA SIGNAL LC		5
	TB1-45 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB1-45A	J8-E1	A 42E	+ DELTA VX		168
TB1-45A	J25-M5	A 42R	+ DELTA VX		168
TB1-45B	J8-F1	A 43E	- DELTA VX		170
TB1-45B	J25-M6	A 48L	- DELTA VX		170
TB1-45C	J8-G1	A 44E	+ DELTA VY		171
TB1-45C	J25-L6	A 49R	+ DELTA VY		171
TB1-45D	J8-J1	A 45E	- DELTA VY		173
TB1-45D	J25-K6	A 49L	- DELTA VY		173

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-46 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
					169
TB1-46A	TB1-46B		INTERNAL BUS		169
TB1-46A	SHLD A42	A 42B	COMPUTER RETURN		169
TB1-46A	SHLD A46	A 46B	COMPUTER RETURN		169
TB1-46B	TB1-46A		INTERNAL BUS		169
TB1-46B	TB1-46C		INTERNAL BUS		169
TB1-46B	SHLD A43	A 43B	COMPUTER RETURN		169
TB1-46B	SHLD A47	A 47B	COMPUTER RETURN		169
TB1-46C	TB1-46B		INTERNAL BUS		169
TB1-46C	TB1-46D		INTERNAL BUS		169
TB1-46C	SHLD A44	A 44B	COMPUTER RETURN		169
TB1-46C	J25-L5	A 51	COMPUTER RETURN		169
TB1-46D			SPARE (COMPUTER RETURN)		169
TB1-46D	TB1-46C		INTERNAL BUS		169
TB1-46D	SHLD A45	A 45B	COMPUTER RETURN		
	TB1-47 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
					174
TB1-47A	J8-K1	A 46E	+ DELTA VZ		174
TB1-47A	J25-K5	A 50R	+ DELTA VZ		172
TB1-47B	J8-H1	A 47E	- DELTA VZ		172
TB1-47B	J25-K4	A 50L	- DELTA VZ		
TB1-47C			SPARE		
TB1-47C			SPARE		
TB1-47D			SPARE		
TB1-47D			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-48 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-48A	TB1-48B		INTERNAL BUS		287
TB1-48A	J26-C6	A 147R	OG CDU 1 X ERROR SIGNAL		287
TB1-48A	TB1-4B	A 148R	OG CDU 1 X ERROR SIGNAL		287
TB1-48B	TB1-48A		INTERNAL BUS		287
TB1-48B			SPARE (OG CDU 1X ERROR SIG)		287
TB1-48B			SPARE (OG CDU 1X ERROR SIG)		285
TB1-48C	TB1-48D		INTERNAL BUS		285
TB1-48C	J13-EE	A 145R	OG CDU 16 X ERROR SIGNAL		285
TB1-48C	J26-C5	A 147Y	OG CDU 16 X ERROR SIGNAL		285
TB1-48D	TB1-48C		INTERNAL BUS		285
TB1-48D			SPARE (OG CDU 16X ERROR SIG)		285
TB1-48D	J27-A2	A 146R	OG CDU 16 X ERROR SIGNAL		
	TB1-49 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB1-49A	TB1-49B		INTERNAL BUS		286
TB1-49A	J26-D6	A 147L	OG CDU ERROR SIGNAL RETURN		286
TB1-49A	TB1-4D	A 148L	OG CDU ERROR SIGNAL RETURN		286
TB1-49B	TB1-49A		INTERNAL BUS		286
TB1-49B	J13-FF	A 145L	OG CDU ERROR SIGNAL RETURN		286
TB1-49B	J27-B2	A 146L	OG CDU ERROR SIGNAL RETURN		286
TB1-49C	TB1-49D		INTERNAL BUS		
TB1-49C			SPARE		
TB1-49C			SPARE		
TB1-49D	TB1-49C		INTERNAL BUS		
TB1-49D			SPARE		
TB1-49D			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-50 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-50A			SPARE		
TB1-50A			SPARE		
TB1-50A	TB1-50B		INTERNAL BUS		
TB1-50B			SPARE		
TB1-50B			SPARE		
TB1-50B	TB1-50G		INTERNAL BUS		
TB1-50B	TB1-50A		INTERNAL BUS		
TB1-50C			SPARE		
TB1-50C			SPARE		
TB1-50C	TB1-50B		INTERNAL BUS		
TB1-50C	TB1-50D		INTERNAL BUS		
TB1-50D			SPARE		
TB1-50D			SPARE		
TB1-50D	TB1-50C		INTERNAL BUS		
	TB1-51 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-51A	TB1-51B		INTERNAL BUS		7
TB1-51A	J11-K*	A 157L	0 VDC IMU		7
TB1-51A	J26-P2	A 163	0 VDC IMU		7
TB1-51B	TB1-51A		INTERNAL BUS		7
TB1-51B	TB1-51C		INTERNAL BUS		7
TB1-51B	J12-JJ	A 158L	0 VDC IMU		7
TB1-51B	J12-MM	A 159L	0 VDC IMU		7
TB1-51C	TB1-51B		INTERNAL BUS		7
TB1-51C	TB1-51D		INTERNAL BUS		7
TB1-51C	TB3-18Z	A 161	0 VDC IMU		7
TB1-51C	TB3-18Z	A 162	0 VDC IMU		7
TB1-51D			SPARE (0 VDC IMU)		7
TB1-51D	TB1-51C		INTERNAL BUS		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-51	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-51D	J26-R2	A 160	0 VDC IMU		7
TB1-52	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB1-52A	J26-L4	A 181R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
TB1-52A	TB1-19A	A 182E	COMPUTER 800 PPS OUT OF PHASE SYNC		152
TB1-52B	J26-M4	A 181Y	COMPUTER 800 PPS IN PHASE SYNC		151
TB1-52B	TB1-19C	A 183E	COMPUTER 800 PPS IN PHASE SYNC		151
TB1-52C	TB1-52D		INTERNAL BUS		7
TB1-52C	J26-L3	A 181L	COMPUTER 800 PPS SYNC RETURN		7
TB1-52C	SHLD A182	A 182A	COMPUTER 800 PPS SYNC RETURN		7
TB1-52D			SPARE (COMPUTER 800 PPS SYNC RETURN)		7
TB1-52D	TB1-52C		INTERNAL BUS		7
TB1-52D	SHLD A183	A 183A	COMPUTER 800 PPS SYNC RETURN		7
TB1-53	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-53A	TB1-53B		INTERNAL BUS		345
TB1-53A	J17-P*	A 187R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-53A	J19-C	A 190R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-53B	TB1-53A		INTERNAL BUS		345
TB1-53B	TB1-53C		INTERNAL BUS		345
TB1-53B	J16-MM	A 188R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-53B	J31-H*	A 191R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-53C	TB1-53B		INTERNAL BUS		345
TB1-53C	TB1-53D		INTERNAL BUS		345
TB1-53C	J18-C	A 189R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-53C	J32-N*	A 192R	800 CPS 28V 1 PCT HI OPTICS		345

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-53	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-53D	TB1-53C		INTERNAL BUS		
TB1-53D	TB1-54D	A 196	800 CPS 28V 1 PCT HI OPTICS		345
TB1-53D	J26-P5	A 198R	800 CPS 28V 1 PCT HI OPTICS		345
					345
TB1-54	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-54A			SPARE (800 CPS 28V 1 PCT HI OPTICS)		
TB1-54A			SPARE (800 CPS 28V 1 PCT HI OPTICS)		345
TB1-54A	TB1-54B		INTERNAL BUS		345
TB1-54B	TB1-54A		INTERNAL BUS		345
TB1-54B	TB1-54C		INTERNAL BUS		345
TB1-54B	J29-T6	A 194R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-54B	J30-G6	A 195R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-54C			SPARE (800 CPS 28V 1 PCT HI OPTICS)		345
TB1-54C	TB1-54B		INTERNAL BUS		345
TB1-54C	TB1-54D		INTERNAL BUS		345
TB1-54C	J28-T1	A 193R	800 CPS 28V 1 PCT HI OPTICS		345
TB1-54D	TB1-54C		INTERNAL BUS		345
TB1-54D	TB1-53D	A 196	800 CPS 28V 1 PCT HI OPTICS		345
TB1-54D	J26-P5	A 199R	800 CPS 28V 1 PCT HI OPTICS		345
					345
TB1-55	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-55A			SPARE (800 CPS 28V 1 PCT LO OPTICS)		
TB1-55A			SPARE (800 CPS 28V 1 PCT LO OPTICS)		346
TB1-55A	TB1-55B		INTERNAL BUS		346
TB1-55B	TB1-55A		INTERNAL BUS		346
TB1-55B	TB1-55C		INTERNAL BUS		346
					346

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-55	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-55B	J29-S6	A 194L	800 CPS 28V 1 PCT LO OPTICS		346
TB1-55B	J30-G5	A 195L	800 CPS 28V 1 PCT LO OPTICS		346
TB1-55C			SPARE (800 CPS 28V 1 PCT LO OPTICS)		346
TB1-55C	TB1-55B		INTERNAL BUS		346
TB1-55C	TB1-55D		INTERNAL BUS		346
TB1-55C	J28-S1	A 193L	800 CPS 28V 1 PCT LO OPTICS		346
TB1-55D	TB1-55C		INTERNAL BUS		346
TB1-55D	TB2-1D	A 197	800 CPS 28V 1 PCT LO OPTICS		346
TB1-55D	J26-N5	A 198L	800 CPS 28V 1 PCT LO OPTICS		346
TB2- 1	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-1A	TB2-1B		INTERNAL BUS		346
TB2-1A	J17-C*	A 187L	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1A	J19-E	A 190L	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1B	TB2-1A		INTERNAL BUS		346
TB2-1B	TB2-1C		INTERNAL BUS		346
TB2-1B	J16-NN	A 188L	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1B	J31-I*	A 191L	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1C	TB2-1B		INTERNAL BUS		346
TB2-1C	TB2-1D		INTERNAL BUS		346
TB2-1C	J18-E	A 189L	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1C	J32-P*	A 192L	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1D	TB2-1C		INTERNAL BUS		346
TB2-1D	TB1-55D	A 197	800 CPS 28V 1 PCT LO OPTICS		346
TB2-1D	J26-N5	A 199L	800 CPS 28V 1 PCT LO OPTICS		346

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2- 2	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-2A	TB2-2B		INTERNAL BUS		342
TB2-2A	J16-FF	A 202R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2-2A	J31-J*	A 206R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2-2B	TB2-2A		INTERNAL BUS		342
TB2-2B	TB2-2C		INTERNAL BUS		342
TB2-2B	J18-F	A 203R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2-2B	J32-C*	A 207R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2-2C	TB2-2B		INTERNAL BUS		342
TB2-2C	TB2-2D		INTERNAL BUS		342
TB2-2C	J19-F	A 204R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2-2C	J26-P6	A 208R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2-2D			SPARE (800 CPS 28V 5 PCT L-90 HI OPTICS)		342
TB2-2D	TB2-2C		INTERNAL BUS		342
TB2-2D	J30-P6	A 205R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
TB2- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-3A	TB2-3B		INTERNAL BUS		343
TB2-3A	J16-GG	A 202L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
TB2-3A	J31-K*	A 206L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
TB2-3B	TB2-3A		INTERNAL BUS		343
TB2-3B	TB2-3C		INTERNAL BUS		343
TB2-3B	J18-G	A 203L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
TB2-3B	J32-R*	A 207L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
TB2-3C	TB2-3B		INTERNAL BUS		343
TB2-3C	TB2-3D		INTERNAL BUS		343
TB2-3C	J19-G	A 204L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
TB2-3C	J26-N6	A 208L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
TB2-3D			SPARE (800 CPS 28V 5 PCT L-90 LO OPTICS)		343
TB2-3D	TB2-3C		INTERNAL BUS		343

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-3D	J30-H5	A 205L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
	TB2-4	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002			
TB2-4A	TB2-4B		INTERNAL BUS		
TB2-4A			SPARE		
TB2-4A			SPARE		
TB2-4B	TB2-4A		INTERNAL BUS		
TB2-4B			SPARE		
TB2-4B			SPARE		
TB2-4C	TB2-4D		INTERNAL BUS		
TB2-4C			SPARE		
TB2-4C			SPARE		
TB2-4D	TB2-4C		INTERNAL BUS		
TB2-4D			SPARE		
TB2-4D			SPARE		
	TB2- 5	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002			
TB2-5A	TB2-5B		INTERNAL BUS		162
TB2-5A	J27-G4	A 698R	SHAFT ENCODER + DELTA THETA CUTPUT		162
TB2-5A	J7-K1	A 700E	SHAFT ENCODER + DELTA THETA CUTPUT		162
TB2-5B			SPARE (SHAFT ENCODER + DELTA THETA OUTPUT)		162
TB2-5B	TB2-5A		INTERNAL BUS		162
TB2-5B	J28-G4	A 699R	SHAFT ENCODER + DELTA THETA CUTPUT		162
TB2-5C	TB2-5D		INTERNAL BUS		159
TB2-5C	J27-K4	A 698L	SHAFT ENCODER - DELTA THETA CUTPUT		159
TB2-5C	J7-H1	A 701E	SHAFT ENCODER - DELTA THETA CUTPUT		159

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 5	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-5D			SPARE (SHAFT ENCODER - DELTA THETA OUTPUT)		159
TB2-5D	TB2-5C		INTERNAL BUS		159
TB2-5D	J28-K4	A 699L	SHAFT ENCODER - DELTA THETA OUTPUT		159
	TB2- 6	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002			
TB2-6A	TB2-6B		INTERNAL BUS		160
TB2-6A	J27-H4	A 698Y	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6A	SHLD A700	A 700B	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6B	TB2-6A		INTERNAL BUS		160
TB2-6B	J28-H4	A 699Y	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6B	SHLD A701	A 701B	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6C	TB2-6D		INTERNAL BUS		158
TB2-6C	J27-H6	A 702Y	TRUN ENCODER DELTA THETA OUTPUT COM		158
TB2-6C	SHLD A704	A 704B	TRUN ENCODER DELTA THETA OUTPUT COM		158
TB2-6D	TB2-6C		INTERNAL BUS		158
TB2-6D	J28-H6	A 703Y	TRUN ENCODER DELTA THETA OUTPUT COM		158
TB2-6D	SHLD A705	A 705B	TRUN ENCODER DELTA THETA OUTPUT COM		158
	TB2- 7	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002			
TB2-7A	TB2-7B		INTERNAL BUS		157
TB2-7A	J27-G6	A 702R	TRUN ENCODER + DELTA THETA OUTPUT		157
TB2-7A	J7-G1	A 704E	TRUN ENCODER + DELTA THETA OUTPUT		157
TB2-7B			SPARE (TRUN ENCODER + DELTA THETA OUTPUT)		157
TB2-7B	TB2-7A		INTERNAL BUS		157
TB2-7B	J28-G6	A 703R	TRUN ENCODER + DELTA THETA OUTPUT		157
TB2-7C	TB2-7D		INTERNAL BUS		161

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 7	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-7C	J27-K6	A 702L	TRUN ENCODER - DELTA THETA OUTPUT		161
TB2-7C	J7-J1	A 705E	TRUN ENCODER - DELTA THETA OUTPUT		161
TB2-7D			SPARE (TRUN ENCODER - DELTA THETA OUTPUT)		161
TB2-7D	TB2-7C		INTERNAL BUS		161
TB2-7D	J28-K6	A 703L	TRUN ENCODER - DELTA THETA OUTPUT		161
	TB2- 8	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001			
TB2-8A	J5-S	A 753R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
TB2-8A	J27-R4	A 755R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
TB2-8B	J5-T	A 753L	800 CPS 28V 5 PCT L-90 DEG LO IMU		60
TB2-8B	J2-G*	A 754L	800 CPS 28V 5 PCT L-90 DEG LO IMU		60
TB2-8C			SPARE		
TB2-8C			SPARE		
TB2-8D			SPARE		
TB2-8D			SPARE		
	TB2- 9	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002			
TB2-9A	TB2-9B		INTERNAL BUS		454
TB2-9A	J27-T5	A 767R	+ 32 VDC PIP		454
TB2-9A	J24-S4	A 769R	+ 32 VDC PIP		454
TB2-9B			SPARE (+32 VDC PIP)		454
TB2-9B	TB2-9A		INTERNAL BUS		454
TB2-9B	J23-S4	A 768R	+ 32 VDC PIP		454
TB2-9C	TB2-9D		INTERNAL BUS		453
TB2-9C	J27-L5	A 767L	+ 120 VDC PIP		453
TB2-9C	J24-S1	A 769L	+ 120 VDC PIP		453

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 9	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-9D			SPARE (+120 VDC PIP)		453
TB2-9D	TB2-9C		INTERNAL BUS		453
TB2-9D	J23-S2	A 768L	+ 120 VDC PIP		453
	TB2-10	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002			
TB2-10A	TB2-10B		INTERNAL BUS		452
TB2-10A	J27-L4	A 767Y	+ 32, +120 VDC RET PIP		452
TB2-10A	J24-R1	A 769Y	+ 32, +120 VDC RET PIP		452
TB2-10B			SPARE (+32,+120 VDC RET PIP)		452
TB2-10B	TB2-10A		INTERNAL BUS		452
TB2-10B	J23-R2	A 768Y	+ 32, +120 VDC RET PIP		452
TB2-10C	TB2-10D		INTERNAL BUS		59
TB2-10C	J2-F*	A 754R	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
TB2-10C			SPARE (800 CPS 28V 5 PCT 6-90 DEG HI IMU)		59
TB2-10D	J27-P4	A 755L	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
TB2-10D			SPARE (800 CPS 28V 5 PCT L-90 DEG HI IMU)		59
TB2-10D	TB2-10C		INTERNAL BUS		59
	TB2-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004			
TB2-11A	J21-P1	A 455R	3200 CPS 20 V HI		428
TB2-11A	J27-N2	A 456R	3200 CPS 20 V HI		428
TB2-11B	J21-N2	A 455L	3200 CPS 20 V LO		427
TB2-11B	J27-R2	A 456Y	3200 CPS 20 V LO		427
TB2-11C	TB2-11D		INTERNAL BUS		7
TB2-11C	J27-F2	A 454	0 VDC IMU		7
TB2-11C	J21-N1	A 455Y	3200 CPS 20 V CT		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-11D	TB2-12A	A 457	0 VDC IMU		7
TB2-11D	TB2-11C		INTERNAL BUS		7
TB2-11D	J27-P2	A 456L	3200 CPS 20 V CT		7
TB2-12	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-12A			SPARE (0 VDC IMU)		7
TB2-12A	TB2-12B		INTERNAL BUS		7
TB2-12A	TB2-11D	A 457	0 VDC IMU		7
TB2-12B	TB2-12A		INTERNAL BUS		7
TB2-12B	TB2-12C		INTERNAL BUS		7
TB2-12B	J27-S1	A 459	0 VDC IMU		7
TB2-12B	TB3-18L	A 462	0 VDC IMU		7
TB2-12C			SPARE (0 VDC IMU)		7
TB2-12C	TB2-12B		INTERNAL BUS		7
TB2-12C	TB2-12D		INTERNAL BUS		7
TB2-12C	TB3-18H	A 463	0 VDC IMU		7
TB2-12D			SPARE (0 VDC IMU)		7
TB2-12D	TB2-12C		INTERNAL BUS		7
TB2-12D	J27-S3	A 461	0 VDC IMU		7
TB2-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-13A			SPARE		
TB2-13A			SPARE		
TB2-13A	TB2-13B		INTERNAL BUS		
TB2-13B			SPARE		
TB2-13B			SPARE		

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(CONT.) TB2-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-13B	TB2-13A		INTERNAL BUS		
TB2-13C			SPARE		
TB2-13C			SPARE		
TB2-13C	TB2-13D		INTERNAL BUS		
TB2-13D			SPARE		
TB2-13D			SPARE		
TB2-13D	TB2-13C		INTERNAL BUS		
TB2-14	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-14A			SPARE (SXT SHAFT 16X RSVR S4)		388
TB2-14A	TB2-14B		INTERNAL BUS		388
TB2-14A	SHLD A772	A 772B	SXT SHAFT 16X RSVR S4		388
TB2-14B	TB2-14A		INTERNAL BUS		388
TB2-14B	TB2-14C		INTERNAL BUS		388
TB2-14B	J32-K	A 772R	SXT SHAFT 16 X RSVR S4		388
TB2-14B	J28-A2	A 774R	SXT SHAFT 16 X RSVR S4		388
TB2-14C			SPARE (SXT SHAFT 16X RSVR S4)		388
TB2-14C	TB2-14B		INTERNAL BUS		388
TB2-14C	TB2-14D		INTERNAL BUS		388
TB2-14C	SHLD A773	A 773B	SXT SHAFT 16X RSVR S4		388
TB2-14D			SPARE (SXT SHAFT 16X RSVR S4)		388
TB2-14D	TB2-14C		INTERNAL BUS		388
TB2-14D	J18-J*	A 773R	SXT SHAFT 16 X RSVR S4		388

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2-15	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-15A	TB2-15B		INTERNAL BUS		
TB2-15A	J32-L	A 772L	SXT SHAFT 16 X RSVR S2		387
TB2-15A	J28-A3	A 774L	SXT SHAFT 16 X RSVR S2		387
TB2-15B			SPARE (SXT SHAFT 16X RSVR S2)		387
TB2-15B	TB2-15A		INTERNAL BUS		387
TB2-15B	J18-I*	A 773L	SXT SHAFT 16 X RSVR S2		387
TB2-15C			SPARE		
TB2-15C			SPARE		
TB2-15C	TB2-15D		INTERNAL BUS		
TB2-15D			SPARE		
TB2-15D			SPARE		
TB2-15D	TB2-15C		INTERNAL BUS		
TB2-16	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-16A	J32-E	A 777R	SXT SHAFT MCT PHASE 2		486
TB2-16A	J28-S5	A 778R	SXT SHAFT MCT PHASE 2		486
TB2-16B	J32-F	A 777L	0 VDC OPTICS		7
TB2-16B	TB2-31A	A 411	0 VDC OPTICS		7
TB2-16C			SPARE		
TB2-16C			SPARE		
TB2-16D	J32-D	A 777Y	SXT SHAFT MCT PHASE 1		489
TB2-16D	J28-T5	A 778L	SXT SHAFT MCT PHASE 1		489

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2-17	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-17A	J28-M3	A 780	SXT SHAFT MCA INPUT BUFFERED		324
TB2-17A	J16-E	A 782R	SXT SHAFT MCA INPUT BUFFERED		324
TB2-17B	J28-M4	A 781	SXT SHAFT TACH FDBK BUFFERED		326
TB2-17B	J16-J	A 783R	SXT SHAFT TACH FDBK BUFFERED		326
TB2-17C			SPARE (0 VDC OPTICS)		7
TB2-17C	TB2-17D		INTERNAL BUS		7
TB2-17C	J16-F	A 782L	0 VDC OPTICS		7
TB2-17D	TB2-17C		INTERNAL BUS		7
TB2-17D	J16-K	A 783L	0 VDC OPTICS		7
TB2-17D	TB2-18C	A 819	0 VDC OPTICS		7
TB2-18	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-18A	J28-M1	A 785	SXT TRUN MDA INPUT BUFFERED		337
TB2-18A	J16-J*	A 787R	SXT TRUN MDA INPUT BUFFERED		337
TB2-18B	J28-M2	A 786	SXT TRUN TACH FDBK BUFFERED		336
TB2-18B	J16-G*	A 788R	SXT TRUN TACH FDBK BUFFERED		336
TB2-18C	TB2-18D		INTERNAL BUS		7
TB2-18C	J16-K*	A 787L	0 VDC OPTICS		7
TB2-18C	TB2-17D	A 819	0 VDC OPTICS		7
TB2-18D	TB2-18C		INTERNAL BUS		7
TB2-18D	TB2-19D	A 784	0 VDC OPTICS		7
TB2-18D	J16-H*	A 788L	0 VDC OPTICS		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-19 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
					334
TB2-19A	J28-M5	A 789	SCT SHAFT 1 X ERROR SIG BUFFERED		334
TB2-19A	J16-C*	A 791R	SCT SHAFT 1 X ERROR SIG BUFFERED		323
TB2-19B	J28-M6	A 790	SCT SHAFT TACH FDBK BUFFERED		323
TB2-19B	J16-C	A 792R	SCT SHAFT TACH FDBK BUFFERED		7
TB2-19C	TB2-19D		INTERNAL BUS		7
TB2-19C	TB2-30A	A 408	0 VDC OPTICS		7
TB2-19C	J16-D*	A 791L	0 VDC OPTICS		7
TB2-19D	TB2-19C		INTERNAL BUS		7
TB2-19D	TB2-18D	A 784	0 VDC OPTICS		7
TB2-19D	J16-D	A 792L	0 VDC OPTICS		
	TB2-20 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
					417
TB2-20A			SPARE (SXT TRUN 64X RSVR S2)		417
TB2-20A	TB2-20B		INTERNAL BUS		417
TB2-20A	SHLD A793	A 793B	SXT TRUN 64 X RSVR S2		417
TB2-20B	TB2-20A		INTERNAL BUS		417
TB2-20B	TB2-20C		INTERNAL BUS		417
TB2-20B	J32-F*	A 793R	SXT TRUN 64 X RSVR S2		417
TB2-20B	J28-C1	A 795R	SXT TRUN 64 X RSVR S2		417
TB2-20C			SPARE (SXT TRUN 64X RSVR S2)		417
TB2-20C	TB2-20B		INTERNAL BUS		417
TB2-20C	TB2-20D		INTERNAL BUS		417
TB2-20C	SHLD A794	A 794A	SXT TRUN 64 X RSVR S2		417
TB2-20D			SPARE (SXT TRUN 64X RSVR S2)		417
TB2-20D	TB2-20C		INTERNAL BUS		417
TB2-20D	J19-P*	A 794R	SXT TRUN 64 X RSVR S2		

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-21 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
					418
TB2-21A	TB2-21B		INTERNAL BUS		418
TB2-21A	J32-E*	A 793L	SXT TRUN 64 X RSVR S4		418
TB2-21A	J28-C2	A 795L	SXT TRUN 64 X RSVR S4		418
TB2-21B			SPARE (SXT TRUN 64X RSVR S4)		418
TB2-21B	TB2-21A		INTERNAL BUS		418
TB2-21B	J19-C*	A 794L	SXT TRUN 64 X RSVR S4		
TB2-21C			SPARE		
TB2-21C			SPARE		
TB2-21C	TB2-21D		INTERNAL BUS		
TB2-21D			SPARE		
TB2-21D			SPARE		
TB2-21D	TB2-21C		INTERNAL BUS		
	TB2-22 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
					487
TB2-22A	J28-S6	A 798R	SXT TRUN MOT PHASE 2		487
TB2-22A	J32-V	A 799R	SXT TRUN MOT PHASE 2		7
TB2-22B	J32-W	A 799L	0 VDC OPTICS		7
TB2-22B	TB2-31C	A 412	0 VDC OPTICS		
TB2-22C			SPARE		490
TB2-22C			SPARE		490
TB2-22D	J28-T6	A 798L	SXT TRUN MOT PHASE 1		
TB2-22D	J32-U	A 799Y	SXT TRUN MOT PHASE 1		

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-23 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-23A	J28-S4	A 802R	SCT SHAFT MOT PHASE 2		485
TB2-23A	J31-U	A 804R	SCT SHAFT MOT PHASE 2		485
TB2-23B	J31-V	A 804L	0 VDC OPTICS		7
TB2-23B	TB2-30D	A 413	0 VDC OPTICS		7
TB2-23C			SPARE		
TB2-23C			SPARE		
TB2-23D	J28-T4	A 802L	SCT SHAFT MOT PHASE 1		488
TB2-23D	J31-T	A 804Y	SCT SHAFT MOT PHASE 1		488
	TB2-24 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-24A	TB2-24B		INTERNAL BUS		329
TB2-24A	J31-P*	A 386R	TRACKER X DRIVE BUFFERED HI		329
TB2-24A	J28-C7	A 388R	TRACKER X DRIVE BUFFERED HI		329
TB2-24B			SPARE (TRACKER X DRIVE BUFFERED HI)		329
TB2-24B	TB2-24A		INTERNAL BUS		329
TB2-24B	J16-R	A 387R	TRACKER X DRIVE BUFFERED HI		329
TB2-24C	TB2-24D		INTERNAL BUS		330
TB2-24C	J31-Y*	A 389R	TRACKER Y DRIVE BUFFERED HI		330
TB2-24C	J28-C8	A 391R	TRACKER Y DRIVE BUFFERED HI		330
TB2-24D			SPARE (TRACKER Y DRIVE BUFFERED HI)		330
TB2-24D	TB2-24C		INTERNAL BUS		330
TB2-24D	J16-T	A 390R	TRACKER Y DRIVE BUFFERED HI		330

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-25 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-25A			SPARE (0 VDC)		7
TB2-25A	TB2-25B		INTERNAL BUS		7
TB2-25A	TB2-26D	A 395	0V DC OPTICS		7
TB2-25B			SPARE (0 VDC)		7
TB2-25B	TB2-25A		INTERNAL BUS		7
TB2-25B	TB2-25C		INTERNAL BUS		7
TB2-25B	J16-U	A 390L	TRACKER Y DRIVE BUFFERED LO		7
TB2-25C			SPARE (0 VDC)		7
TB2-25C	TB2-25B		INTERNAL BUS		7
TB2-25C	TB2-25D		INTERNAL BUS		7
TB2-25C	J31-B8	A 392L	TRACKER PREAMP OUTPUT BUFF LO		7
TB2-25D	TB2-25C		INTERNAL BUS		7
TB2-25D	J16-M	A 393L	TRACKER PREAMP OUTPUT BUFF LO		7
TB2-25D	TB3-17B	A 396	0V DC OPTICS		7
	TB2-26 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-26A	TB2-26B		INTERNAL BUS		7
TB2-26A	J31-C*	A 386L	TRACKER X DRIVE BUFFERED LO		7
TB2-26A	J28-C7	A 388L	TRACKER X DRIVE BUFFERED LO		7
TB2-26B	TB2-26A		INTERNAL BUS		7
TB2-26B	TB2-26C		INTERNAL BUS		7
TB2-26B	J16-S	A 387L	TRACKER X DRIVE BUFFERED LO		7
TB2-26B	J28-C8	A 391L	TRACKER Y DRIVE BUFFERED LO		7
TB2-26C	TB2-26B		INTERNAL BUS		7
TB2-26C	TB2-26D		INTERNAL BUS		7
TB2-26C	J31-Z*	A 389L	TRACKER Y DRIVE BUFFERED LO		7
TB2-26C	J28-C9	A 394L	TRACKER PREAMP OUTPUT BUFF LO		7
TB2-26D			SPARE (0 VDC)		7
TB2-26D	TB2-26C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-26	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-26D	TB2-25A	A 395	0V DC OPTICS		7
TB2-27	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-27A	TB2-27B		INTERNAL BUS		327
TB2-27A	J31-AA	A 392R	TRACKER PREAMP OUTPUT BUFF HI		327
TB2-27A	J28-C9	A 394R	TRACKER PREAMP OUTPUT BUFF HI		327
TB2-27B			SPARE (TRACKER PREAMP OUTPUT BUFF HI)		327
TB2-27B	TB2-27A		INTERNAL BUS		327
TB2-27B	J16-L	A 393R	TRACKER PREAMP OUTPUT BUFF HI		
TB2-27C			SPARE		
TB2-27C			SPARE		
TB2-27C	TB2-27D		INTERNAL BUS		
TB2-27D			SPARE		
TB2-27D			SPARE		
TB2-27D	TB2-27C		INTERNAL BUS		
TB2-28	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-28A	J6-E1	A 397E	TRUN + DELTA THETA CMD		144
TB2-28A	J28-G5	A 399R	TRUN + DELTA THETA CMD		144
TB2-28B	J6-F1	A 398E	TRUN - DELTA THETA CMD		146
TB2-28B	J28-K5	A 399Y	TRUN - DELTA THETA CMD		146
TB2-28C	TB2-28D		INTERNAL BUS		145
TB2-28C	SHLD A397	A 397B	TRUN DELTA THETA CMC COMMON		145
TB2-28C	J28-H5	A 399L	TRUN DELTA THETA CMC COMMON		145
TB2-28D			SPARE (TRUNN DELTA THETA CMD COMMCN)		145
TB2-28D	TB2-28C		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-28	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-28D	SHLD A398	A 398B	TRUN DELTA THETA CMC COMMON		145
TB2-29	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-29A	J6-C1	A 400E	SHAFT + DELTA THETA CMD		141
TB2-29A	J28-G3	A 402R	SHAFT + DELTA THETA CMD		141
TB2-29B	J6-D1	A 401E	SHAFT - DELTA THETA CMD		143
TB2-29B	J28-K3	A 402Y	SHAFT - DELTA THETA CMD		143
TB2-29C	TB2-29D		INTERNAL BUS		142
TB2-29C	SHLD A400	A 400B	SHAFT DELTA THETA CMD COMMON		142
TB2-29C	J28-H3	A 402L	SHAFT DELTA THETA CMD COMMON		142
TB2-29D			SPARE (SHAFT DELTA THETA CMD COMMCN)		142
TB2-29D	TB2-29C		INTERNAL BUS		142
TB2-29D	SHLD A401	A 401B	SHAFT DELTA THETA CMD COMMON		142
TB2-30	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-30A	TB2-30B		INTERNAL BUS		7
TB2-30A	TB2-19C	A 408	0 VDC OPTICS		7
TB2-30A	J28-L6	A 409	0 VDC OPTICS		7
TB2-30B	TB2-30A		INTERNAL BUS		7
TB2-30B	TB3-17C	A 410	0 VDC OPTICS		7
TB2-30B	TB3-17C	A 419	0 VDC OPTICS		7
TB2-30C	TB2-30D		INTERNAL BUS		7
TB2-30C	J28-R4	A 414	0 VDC OPTICS		7
TB2-30C	TB3-17G	A 420	0 VDC OPTICS		7
TB2-30D			SPARE (0 VDC OPTICS)		7
TB2-30D	TB2-30C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-30	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-30D	TB2-23B	A 413	0 VDC OPTICS		7
TB2-31	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-31A	TB2-31B		INTERNAL BUS		7
TB2-31A	TB2-16B	A 411	0 VDC OPTICS		7
TB2-31A	J28-R5	A 415	0 VDC OPTICS		7
TB2-31B			SPARE (0 VDC OPTICS)		7
TB2-31B	TB2-31A		INTERNAL BUS		7
TB2-31B	TB3-17H	A 421	0 VDC OPTICS		7
TB2-31C	TB2-31D		INTERNAL BUS		7
TB2-31C	TB2-22B	A 412	0 VDC OPTICS		7
TB2-31C	J28-R6	A 416	0 VDC OPTICS		7
TB2-31D	TB2-31C		INTERNAL BUS		7
TB2-31D	TB3-17F	A 418	0 VDC OPTICS		7
TB2-31D	TB3-17F	A 422	0 VDC OPTICS		7
TB2-32	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-32A	J29-P1	A 239	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
TB2-32A	J16-E*	A 245R	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
TB2-32B	J29-P2	A 240	TRUN CDU TACH FDBK BUFFERED		339
TB2-32B	J16-P*	A 246R	TRUN CDU TACH FDBK BUFF		339
TB2-32C	J29-P3	A 241	SHAFT CDU 16 X ERRCR SIG BUFF		325
TB2-32C	J16-G	A 247R	SHAFT CDU 16 X ERRCR SIG BUFF		325
TB2-32D			SPARE		
TB2-32D			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2-33	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-33A	TB2-33B		INTERNAL BUS		7
TB2-33A	J16-F*	A 245L	0 VDC OPTICS		7
TB2-33A	J16-C*	A 246L	0 VDC OPTICS		7
TB2-33B	TB2-33A		INTERNAL BUS		7
TB2-33B	TB2-33C		INTERNAL BUS		7
TB2-33B	J16-L	A 247L	0 VDC OPTICS		7
TB2-33B	J16-B*	A 248L	0 VDC OPTICS		7
TB2-33C	TB2-33B		INTERNAL BUS		7
TB2-33C	TB2-33D		INTERNAL BUS		7
TB2-33C	J16-S*	A 249L	0 VDC OPTICS		7
TB2-33C	TB2-35A	A 482	0 VDC OPTICS		7
TB2-33D			SPARE (0 VDC OPTICS)		7
TB2-33D	TB2-33C		INTERNAL BUS		7
TB2-33D	J16-N*	A 250L	0 VDC OPTICS		7
TB2-34	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-34A	J29-P4	A 242	SHAFT CDU TACH FDBK SIG BUFF		333
TB2-34A	J16-A*	A 248R	SHAFT CDU TACH FDBK SIG BUFF		333
TB2-34B	J29-P5	A 243	SCT TRUN 1 X ERROR SIG BUFF		340
TB2-34B	J16-R*	A 249R	SCT TRUN 1 X ERROR SIG BUFF		340
TB2-34C	J29-P6	A 244	SCT TRUN TACH FDBK BUFF		338
TB2-34C	J16-M*	A 250R	SCT TRUN TACH FDBK BUFF		338
TB2-34D			SPARE		
TB2-34D			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-35 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-35A	TB2-35B		INTERNAL BUS		7
TB2-35A	TB2-33C	A 482	0 VDC OPTICS		7
TB2-35A	TB3-17N	A 483	0 VDC OPTICS		7
TB2-35B	TB2-35A		INTERNAL BUS		7
TB2-35B	J29-L6	A 481	0 VDC OPTICS		7
TB2-35B	TB3-17P	A 484	0 VDC OPTICS		7
TB2-35C	TB2-35D		INTERNAL BUS		7
TB2-35C	TB2-37B	A 468	0 VDC OPTICS		7
TB2-35C	TB3-17Q	A 492	0 VDC OPTICS		7
TB2-35D	TB2-35C		INTERNAL BUS		7
TB2-35D	J29-R3	A 491	0 VDC OPTICS		7
TB2-35D	TB3-17P	A 493	0 VDC OPTICS		7
	TB2-36 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-36A	TB2-36B		INTERNAL BUS		7
TB2-36A	TB2-38B	A 472	0 VDC OPTICS		7
TB2-36A	TB3-17R	A 486	0 VDC OPTICS		7
TB2-36B	TB2-36A		INTERNAL BUS		7
TB2-36B	J29-R1	A 485	0 VDC OPTICS		7
TB2-36B	TB3-17S	A 487	0 VDC OPTICS		7
TB2-36C	TB2-36D		INTERNAL BUS		7
TB2-36C	J29-R2	A 488	0 VDC OPTICS		7
TB2-36C	TB3-17R	A 489	0 VDC OPTICS		7
TB2-36D	TB2-36C		INTERNAL BUS		7
TB2-36D	TB2-39B	A 474	0 VDC OPTICS		7
TB2-36D	TB3-17S	A 490	0 VDC OPTICS		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-37 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-37A	J31-E	A 466R	SCT TRUN MOT PHASE 2		498
TB2-37A	J29-T3	A 467R	SCT TRUN MOT PHASE 2		498
TB2-37B	J31-F	A 466L	0 VDC OPTICS		7
TB2-37B	TB2-35C	A 468	0 VDC OPTICS		7
TB2-37C	J31-C	A 466Y	SCT TRUN MOT PHASE 1		497
TB2-37C	J29-S3	A 467L	SCT TRUN MOT PHASE 1		497
TB2-37D			SPARE		
TB2-37D			SPARE		
	TB2-38 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-38A	J19-B*	A 470R	TRUN CDU MOT PHASE 2		411
TB2-38A	J29-T1	A 471R	TRUN CDU MOT PHASE 2		411
TB2-38B	J19-C*	A 470L	0 VDC OPTICS		7
TB2-38B	TB2-36A	A 472	0 VDC OPTICS		7
TB2-38C	J19-A*	A 470Y	TRUN CDU MOT PHASE 1		410
TB2-38C	J29-S1	A 471L	TRUN CDU MOT PHASE 1		410
TB2-38C			SPARE		
TB2-38D			SPARE		
	TB2-39 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-39A	J18-P*	A 473R	SHAFT CDU MOT PHASE 2		392
TB2-39A	J29-T2	A 607R	SHAFT CDU MOT PHASE 2		392
TB2-39B	J18-C*	A 473L	0 VDC OPTICS		7
TB2-39B	TB2-36D	A 474	0 VDC OPTICS		7
TB2-39C	J18-N*	A 473Y	SHAFT CDU MOT PHASE 1		391
TB2-39C	J29-S2	A 607L	SHAFT CDU MOT PHASE 1		391

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB2-39 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-39D			SPARE		
TB2-39D			SPARE		
	TB2-40 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-40A	TB2-40B		INTERNAL BUS		
TB2-40A			SPARE		
TB2-40A			SPARE		
TB2-40B	TB2-40A		INTERNAL BUS		
TB2-40B			SPARE		
TB2-40B			SPARE		
TB2-40C	TB2-40D		INTERNAL BUS		
TB2-40C			SPARE		
TB2-40C			SPARE		
TB2-40D	TB2-40C		INTERNAL BUS		
TB2-40D			SPARE		
TB2-40D			SPARE		
	TB2-41 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-41A	TB2-41B		INTERNAL BUS		258
TB2-41A	J30-M1	A 85	+28 VDC IMU		258
TB2-41A	TB1-1B	A 96	+28 VDC IMU		258
TB2-41B	TB2-41A		INTERNAL BUS		258
TB2-41B	TB2-41C		INTERNAL BUS		258
TB2-41B	J30-M2	A 86	+28 VDC IMU		258
TB2-41B	J30-N1	A 87	+28 VDC IMU		258
TB2-41C	TB2-41B		INTERNAL BUS		258

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB2-41 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-41C	TB2-41D		INTERNAL BUS		258
TB2-41C	J30-N2	A 88	+28 VDC IMU		258
TB2-41C	TB1-17C	A 103	+28 VDC IMU		258
TB2-41D	TB2-41C		INTERNAL BUS		258
TB2-41D	J12-PP	A 95	+28 VDC IMU		258
TB2-41D	TB1-17B	A 102	+28 VDC IMU		258
	TB2-42 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-42A	TB2-42B		INTERNAL BUS		39
TB2-42A	TB1-1C	A 97	+28 VDC IMU		39
TB2-42A	J24-S6	A 112	+28 VDC IMU		39
TB2-42B	TB2-42A		INTERNAL BUS		39
TB2-42B	TB2-42C		INTERNAL BUS		39
TB2-42B	J22-S5	A 110	+28 VDC IMU		39
TB2-42B	J12-K	A 818	+28 VDC IMU		39
TB2-42C	TB2-42B		INTERNAL BUS		39
TB2-42C	TB2-42D		INTERNAL BUS		39
TB2-42C	J2-D	A 94	+28 VDC IMU		39
TB2-42C	J25-S2	A 113	+28 VDC IMU		39
TB2-42D			SPARE (+28 VDC IMU)		39
TB2-42D	TB2-42C		INTERNAL BUS		39
TB2-42D	TB2-43A	A 92	+28 VDC IMU		39

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-51 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-51A	TB2-51B		INTERNAL BUS		304
TB2-51A	J15-C	A 526	+ 28 VDC IMU BUS B		304
TB2-51A	J30-P2	A 531	+ 28 VDC IMU BUS B		304
TB2-51B	TB2-51A		INTERNAL BUS		304
TB2-51B	TB2-51C		INTERNAL BUS		304
TB2-51B	J15-C	A 527	+ 28 VDC IMU BUS B		304
TB2-51B	J30-R2	A 532	+ 28 VDC IMU BUS B		304
TB2-51C	TB2-51B		INTERNAL BUS		304
TB2-51C	TB2-51D		INTERNAL BUS		304
TB2-51C	J15-C	A 528	+ 28 VDC IMU BUS B		304
TB2-51C	J30-S2	A 533	+ 28 VDC IMU BUS B		304
TB2-51D	TB2-51C		INTERNAL BUS		304
TB2-51D	J15-C	A 529	+ 28 VDC IMU BUS B		304
TB2-51D	J30-T2	A 534	+ 28 VDC IMU BUS B		304
	TB2-52 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-52A	TB2-52B		INTERNAL BUS		423
TB2-52A	J20-A	A 546	+ 28 VDC OPTICS BUS A		423
TB2-52A	J30-R5	A 551	+ 28 VDC OPTICS BUS A		423
TB2-52B	TB2-52A		INTERNAL BUS		423
TB2-52B	TB2-52C		INTERNAL BUS		423
TB2-52B	J20-A	A 547	+ 28 VDC OPTICS BUS A		423
TB2-52B	J30-S5	A 552	+ 28 VDC OPTICS BUS A		423
TB2-52C	TB2-52B		INTERNAL BUS		423
TB2-52C	TB2-52D		INTERNAL BUS		423
TB2-52C	J20-B	A 548	+ 28 VDC OPTICS BUS A		423
TB2-52C	J30-T5	A 553	+ 28 VDC OPTICS BUS A		423
TB2-52D			SPARE (+28 VDC OPTICS BUS A)		423
TB2-52D	TB2-52C		INTERNAL BUS		423

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB2-52 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-52D	J20-B	A 549	+ 28 VDC OPTICS BUS A		423
	TB2-53 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-53A	TB2-53B		INTERNAL BUS		424
TB2-53A	J20-C	A 554	+ 28 VDC OPTICS BUS B		424
TB2-53A	J30-R6	A 559	+ 28 VDC OPTICS BUS B		424
TB2-53B	TB2-53A		INTERNAL BUS		424
TB2-53B	TB2-53C		INTERNAL BUS		424
TB2-53B	J20-C	A 555	+ 28 VDC OPTICS BUS B		424
TB2-53B	J30-S6	A 560	+ 28 VDC OPTICS BUS B		424
TB2-53C	TB2-53B		INTERNAL BUS		424
TB2-53C	TB2-53D		INTERNAL BUS		424
TB2-53C	J20-C	A 556	+ 28 VDC OPTICS BUS B		424
TB2-53C	J30-T6	A 561	+ 28 VDC OPTICS BUS B		424
TB2-53D			SPARE (+28 VDC OPTICS BUS B)		424
TB2-53D	TB2-53C		INTERNAL BUS		424
TB2-53D	J20-C	A 557	+ 28 VDC OPTICS BUS B		
	TB2-54 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-54A			SPARE (+28 VDC MDV)		124
TB2-54A	TB2-54B		INTERNAL BUS		124
TB2-54A	J22-L1	A 594	+ 28 VDC MDV		124
TB2-54B	TB2-54A		INTERNAL BUS		124
TB2-54B	TB2-54C		INTERNAL BUS		124
TB2-54B	J30-P5	A 592	+ 28 VDC MDV		124
TB2-54B	J27-R5	A 595	+ 28 VDC MDV		124

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB2-54 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-54C	TB2-54B		INTERNAL BUS		124
TB2-54C	TB2-54D		INTERNAL BUS		124
TB2-54C	J30-N5	A 593	+ 28 VDC MDV		124
TB2-54C	J12-C*	A 596	+ 28 VDC MDV		124
TB2-54D			SPARE (+28 VDC MDV)		124
TB2-54D	TB2-54C		INTERNAL BUS		124
TB2-54D	J5-K*	A 597	+ 28 VDC MDV		124
	TB2-55 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-55A	TB2-55B		INTERNAL BUS		499
TB2-55A	J32-MM	A 622R	STAR PRESENCE INPUT HI		499
TB2-55A	J30-A7	A 623R	STAR PRESENCE INPUT HI		499
TB2-55B			SPARE (STAR PRESENCE INPUT HI)		499
TB2-55B			SPARE (STAR PRESENCE INPUT HI)		499
TB2-55B	TB2-55A		INTERNAL BUS		499
TB2-55C	TB2-55D		INTERNAL BUS		150
TB2-55C	J32-NN	A 622L	STAR PRESENCE INPUT LO		150
TB2-55C	J30-A8	A 623L	STAR PRESENCE INPUT LO		150
TB2-55D	TB2-55C		INTERNAL BUS		150
TB2-55D	SHLD A624	A 624A	STAR PRESENCE INPUT LO		150
TB2-55D	TB5-21	A 626	STAR PRESENCE INPUT LO		150

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB3- 1 16 CONTACT BUS BAR ASSY MAKE FROM 1902305-001 INSULATOR AND 1901620 BUS BAR				
TB3-1A	J16-B	A 585	SHIELD GRD		7
TB3-1B	J4-E*	A 296	SHIELD GRD		7
TB3-1C	J19-B	A 578	SHIELD GRD		7
TB3-1D	J4-T	A 348	SHIELD GRD		7
TB3-1F	TB3-13B	A 671	SHIELD GRD		7
TB3-1G	J18-B	A 577	SHIELD GRD		7
TB3-1H	TB3-14B	A 672	SHIELD GRD		7
TB3-1K	J20-G	A 581	SHIELD GRD		7
TB3-1L	TB3-15B	A 673	SHIELD GRD		7
TB3-1M	J20-K	A 582	SHIELD GRD		7
TB3-1N	TB3-16B	A 674	SHIELD GRD		7
TB3-1P	J31-B	A 583	SHIELD GRD		7
TB3-1R	J32-B	A 584	SHIELD GRD		7
TB3-1S	J5-B	A 579	SHIELD GRD		7
TB3-1T	J15-G	A 580	SHIELD GRD		7
TB3-1V	E219	A 576	SHIELD GRD		7
	TB3- 2 16 CONTACT BUS BAR ASSY MAKE FROM 1902305-001 INSULATOR AND 1901620 BUS BAR				
TB3-2A			SPARE (STRUCTURE GROUND)		7
TB3-2B			SPARE (STRUCTURE GROUND)		7
TB3-2C			SPARE (STRUCTURE GROUND)		7
TB3-2D			SPARE (STRUCTURE GROUND)		7
TB3-2F			SPARE (STRUCTURE GROUND)		7
TB3-2G			SPARE (STRUCTURE GROUND)		7
TB3-2H			SPARE (STRUCTURE GROUND)		7
TB3-2K			SPARE (STRUCTURE GROUND)		7
TB3-2L			SPARE (STRUCTURE GROUND)		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3- 2			16 CONTACT BUS BAR ASSY MAKE FROM 1902305-001 INSULATOR AND 1901620 BUS BAR		
TB3-2M	E219	A 575	STRUCTURE GRD		7
TB3-2N			SPARE (STRUCTURE GROUND)		7
TB3-2P	J2-G	A 574	STRUCTURE GRD		7
TB3-2R			SPARE (STRUCTURE GROUND)		7
TB3-2S	J26-N4	A 573	STRUCTURE GRD		7
TB3-2T			SPARE (STRUCTURE GROUND)		7
TB3-2V	J25-K3	A 60	STRUCTURE GROUND		
			TB3- 3 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002		
TB3-3A			SPARE (Z GYRO ERROR SIG)		62
TB3-3A	TB3-3B		INTERNAL BUS		62
TB3-3A	J11-JJ	A 121R	Z GYRO ERROR SIGNAL		62
TB3-3B	TB3-3A		INTERNAL BUS		62
TB3-3B	J3-B	A 118W	Z GYRO ERROR SIGNAL		62
TB3-3B	J25-A1	A 119W	Z GYRO ERROR SIGNAL		62
TB3-3C			SPARE (X GYRO ERROR SIG)		61
TB3-3C	TB3-3D		INTERNAL BUS		61
TB3-3C	J11-EE	A 120R	X GYRO ERROR SIGNAL		61
TB3-3D	TB3-3C		INTERNAL BUS		61
TB3-3D	J3-A	A 116W	X GYRO ERROR SIGNAL		61
TB3-3D	J25-B1	A 117W	X GYRO ERROR SIGNAL		61

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			TB3- 4 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
TB3-4A	TB3-4B		INTERNAL BUS		7
TB3-4A	TB3-18H	A 123	0 VDC IMU		7
TB3-4A	TB3-5D	A 125	0 VDC IMU		7
TB3-4B			SPARE (0 VDC IMU)		7
TB3-4B	TB3-4A		INTERNAL BUS		7
TB3-4B	TB3-4C		INTERNAL BUS		7
TB3-4B	TB3-18Y	A 124	0 VDC IMU		7
TB3-4C			SPARE (0 VDC IMU)		7
TB3-4C	TB3-4B		INTERNAL BUS		7
TB3-4C	TB3-4D		INTERNAL BUS		7
TB3-4C	J11-FF	A 120L	0 VDC IMU		7
TB3-4D	TB3-4C		INTERNAL BUS		7
TB3-4D	J11-KK	A 121L	0 VDC IMU		7
TB3-4D	J25-R2	A 122	0 VDC IMU		7
			TB3- 5 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
TB3-5A	TB3-5B		INTERNAL BUS		7
TB3-5A	J11-PP	A 128R	0 VDC IMU		7
TB3-5A	J3-V	A 129K	0 VDC IMU		7
TB3-5B			SPARE (0 VDC IMU)		7
TB3-5B	TB3-5A		INTERNAL BUS		7
TB3-5B	TB3-5C		INTERNAL BUS		7
TB3-5B	J11-HH	A 127R	0 VDC IMU		7
TB3-5C			SPARE (0 VDC IMU)		7
TB3-5C			SPARE (0 VDC IMU)		7
TB3-5C	TB3-5B		INTERNAL BUS		7
TB3-5C	TB3-5D		INTERNAL BUS		7
TB3-5D	TB3-5C		INTERNAL BUS		7
TB3-5D	TB3-4A	A 125	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3- 5			8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
TB3-5D	J11-MM	A 126R	0 VDC IMU		7
			TB3- 6 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001		
TB3-6A			SPARE		
TB3-6A			SPARE		
TB3-6B	J11-NN	A 128L	IMU CG ERROR SIGNAL		63
TB3-6B	J3-C	A 129R	IMU OG ERROR SIGNAL		63
TB3-6C	J11-GG	A 127L	IMU IG AND Y GYRO ERROR SIGNAL		76
TB3-6C	J3-U	A 129L	IMU IG AND Y GYRO ERROR SIGNAL		76
TB3-6D	J11-LL	A 126L	IMU MG ERROR SIGNAL		77
TB3-6D	J3-W	A 129Y	IMU MG ERROR SIGNAL		77
			TB3- 7 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
TB3-7A			SPARE (AGC 0 VDC BUS)		7
TB3-7A	TB3-7B		INTERNAL BUS		7
TB3-7A	J14-X*	A 586	AGC 0 VDC BUS		7
TB3-7B			SPARE (AGC 0 VDC BUS)		7
TB3-7B	TB3-7A		INTERNAL BUS		7
TB3-7B	TB3-7C		INTERNAL BUS		7
TB3-7B	E219	A 587	AGC 0 VDC BUS		7
TB3-7C			SPARE (AGC 0 VDC BUS)		7
TB3-7C	TB3-7B		INTERNAL BUS		7
TB3-7C	TB3-7D		INTERNAL BUS		7
TB3-7C	E219	A 588	AGC 0 VDC BUS		7
TB3-7D			SPARE (AGC 0 VDC BUS)		7
TB3-7D			SPARE (AGC 0 VDC BUS)		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3- 7			8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
TB3-7D	TB3-7C		INTERNAL BUS		7
			TB3- 8 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001		
TB3-8A	J17-J	A 601R	SXT SHAFT DRIVE ENABLE		349
TB3-8A	J32-AA	A 6C3R	SXT SHAFT DRIVE ENABLE		349
TB3-8B	J17-K	A 601L	SXT TRUN DRIVE ENABLE		350
TB3-8B	J32-BB	A 6C3L	SXT TRUN DRIVE ENABLE		350
TB3-8C	J17-L	A 604	SCT SHAFT DRIVE DISABLE		351
TB3-8C	J31-W	A 605R	SCT SHAFT DRIVE DISABLE		351
TB3-8D	J31-X	A 605L	0 VDC OPTICS		7
TB3-8D	TB3-9B	A 606	0 VDC OPTICS		7
			TB3- 9 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002		
TB3-9A	TB3-9B		INTERNAL BUS		7
TB3-9A	TB3-17Z	A 602	0 VDC OPTICS		7
TB3-9A	J32-CC	A 603Y	0 VDC OPTICS		7
TB3-9B			SPARE (0 VDC OPTICS)		7
TB3-9B	TB3-9A		INTERNAL BUS		7
TB3-9B	TB3-8D	A 606	0 VDC OPTICS		
TB3-9C			SPARE		
TB3-9C			SPARE		
TB3-9C	TB3-9D		INTERNAL BUS		
TB3-9D			SPARE		
TB3-9D			SPARE		
TB3-9D	TB3-9C		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB3-10 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-10A	TB3-10B		INTERNAL BUS		347
TB3-10A	J18-H	A 667R	400 CPS VAR ILLUM PWR		347
TB3-10A	J19-H	A 668R	400 CPS VAR ILLUM PWR		347
TB3-10B			SPARE (400 CPS VAR ILLUM PWR)		347
TB3-10B	TB3-10A		INTERNAL BUS		347
TB3-10B	TB3-10C		INTERNAL BUS		347
TB3-10B	J17-C	A 665R	400 CPS VAR ILLUM PWR		347
TB3-10C	TB3-10B		INTERNAL BUS		347
TB3-10C	TB3-10D		INTERNAL BUS		347
TB3-10C	J17-F	A 666R	400 CPS VAR ILLUM PWR		347
TB3-10C	J31-M*	A 669R	400 CPS VAR ILLUM PWR		347
TB3-10D			SPARE (400 CPS VAR ILLUM PWR)		347
TB3-10D	TB3-10C		INTERNAL BUS		347
TB3-10D	J32-S*	A 670R	400 CPS VAR ILLUM PWR		347
	TB3-11 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-11A	TB3-11B		INTERNAL BUS		348
TB3-11A	J18-J	A 667L	400 CPS 6 V LO		348
TB3-11A	J19-J	A 668L	400 CPS 6 V LO		348
TB3-11B			SPARE (400 CPS 6V LC)		348
TB3-11B	TB3-11A		INTERNAL BUS		348
TB3-11B	TB3-11C		INTERNAL BUS		348
TB3-11B	J17-E	A 665L	400 CPS 6 V LO		348
TB3-11C	TB3-11B		INTERNAL BUS		348
TB3-11C	TB3-11D		INTERNAL BUS		348
TB3-11C	J17-G	A 666L	400 CPS 6 V LO		348
TB3-11C	J31-N*	A 669L	400 CPS 6 V LO		348
TB3-11D			SPARE (400 CPS 6V LC)		348
TB3-11D	TB3-11C		INTERNAL BUS		348

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB3-11 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-11D	J32-T*	A 670L	400 CPS 6 V LO		348
	TB3-12 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-12A	TB3-12B		INTERNAL BUS		8
TB3-12A	E11	A 660	400 CPS SHIELD GRD		8
TB3-12A	SHLD A668	A 668A	400 CPS SHIELD GRD		8
TB3-12B	TB3-12A		INTERNAL BUS		8
TB3-12B	TB3-12C		INTERNAL BUS		8
TB3-12B	SHLD A666	A 666A	400 CPS SHIELD GRD		8
TB3-12B	SHLD A669	A 669A	400 CPS SHIELD GRD		8
TB3-12C	TB3-12B		INTERNAL BUS		8
TB3-12C	TB3-12D		INTERNAL BUS		8
TB3-12C	SHLD A665	A 665A	400 CPS SHIELD GRD		8
TB3-12C	SHLD A667	A 667A	400 CPS SHIELD GRD		8
TB3-12D	TB3-12C		INTERNAL BUS		8
TB3-12D	J17-H	A 659	400 CPS SHIELD GRD		8
TB3-12D	SHLD A670	A 670A	400 CPS SHIELD GRD		8
	TB3-13 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-13A	TB3-13B		INTERNAL BUS		7
TB3-13A	E7	A 675	SHIELD GRD		7
TB3-13A	E8	A 676	SHIELD GRD		7
TB3-13B	TB3-13A		INTERNAL BUS		7
TB3-13B	TB3-13C		INTERNAL BUS		7
TB3-13B	TB3-1F	A 671	SHIELD GRD		7
TB3-13B	E12	A 677	SHIELD GRD		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB3-13 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-13C	TB3-13B		INTERNAL BUS		7
TB3-13C	TB3-13D		INTERNAL BUS		7
TB3-13C	E13	A 678	SHIELD GRD		7
TB3-13C	E14	A 679	SHIELD GRD		7
TB3-13D	TB3-13C		INTERNAL BUS		7
TB3-13D	E15	A 680	SHIELD GRD		7
TB3-13D	E16	A 681	SHIELD GRD		7
	TB3-14 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-14A	TB3-14B		INTERNAL BUS		7
TB3-14A	E17	A 682	SHIELD GRD		7
TB3-14A	E18	A 683	SHIELD GRD		7
TB3-14B	TB3-14A		INTERNAL BUS		7
TB3-14B	TB3-14C		INTERNAL BUS		7
TB3-14B	TB3-1H	A 672	SHIELD GRD		7
TB3-14B	E19	A 684	SHIELD GRD		7
TB3-14C	TB3-14B		INTERNAL BUS		7
TB3-14C	TB3-14D		INTERNAL BUS		7
TB3-14C	E20	A 685	SHIELD GRD		7
TB3-14C	E21	A 686	SHIELD GRD		7
TB3-14D	TB3-14C		INTERNAL BUS		7
TB3-14D	E22	A 687	SHIELD GRD		7
TB3-14D	E23	A 688	SHIELD GRD		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB3-15 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-15A	TB3-15B		INTERNAL BUS		7
TB3-15A	E24	A 689	SHIELD GRD		7
TB3-15A	E25	A 690	SHIELD GRD		7
TB3-15B	TB3-15A		INTERNAL BUS		7
TB3-15B	TB3-15C		INTERNAL BUS		7
TB3-15B	TB3-1L	A 673	SHIELD GRD		7
TB3-15B	E26	A 691	SHIELD GRD		7
TB3-15C	TB3-15B		INTERNAL BUS		7
TB3-15C	TB3-15D		INTERNAL BUS		7
TB3-15C	E27	A 692	SHIELD GRD		7
TB3-15C	E28	A 693	SHIELD GRD		7
TB3-15D	TB3-15C		INTERNAL BUS		7
TB3-15D	E29	A 694	SHIELD GRD		7
TB3-15D	E30	A 695	SHIELD GRD		7
	TB3-16 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-16A			SPARE (SHIELD GRD)		7
TB3-16A	TB3-16B		INTERNAL BUS		7
TB3-16A	SHLD A222	A 222A	SHIELD GRD		7
TB3-16B			SPARE (SHIELD GRD)		7
TB3-16B	TB3-16A		INTERNAL BUS		7
TB3-16B	TB3-16C		INTERNAL BUS		7
TB3-16B	TB3-1N	A 674	SHIELD GRD		7
TB3-16C			SPARE (SHIELD GRD)		7
TB3-16C	TB3-16B		INTERNAL BUS		7
TB3-16C	TB3-16D		INTERNAL BUS		7
TB3-16C	SHLD A224	A 224A	SHIELD GRD		7
TB3-16D			SPARE (SHIELD GRD)		7
TB3-16D			SPARE (SHIELD GRD)		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-16			8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
TB3-16D	TB3-16C		INTERNAL BUS		7
	TB3-17		22 CONTACT BUS BAR ASSY MAKE FROM 1902421 INSULATOR AND 1902422 BUS BAR		
TB3-17A	TB2-45C	A 278	0 VDC OPTICS		7
TB3-17B	TB2-25C	A 396	0 VDC OPTICS		7
TB3-17C	TB2-30B	A 410	0 VDC OPTICS		7
TB3-17C	TB2-30B	A 419	0 VDC OPTICS		7
TB3-17D	J28-S3	A 417	BUFFERED 0 VDC		7
TB3-17D	J17-V*	A 562	0 VDC OPTICS		7
TB3-17F	TB2-31D	A 418	0 VDC OPTICS		7
TB3-17F	TB2-31D	A 422	0 VDC OPTICS		7
TB3-17G	TB2-30C	A 420	0 VDC OPTICS		7
TB3-17G	J20-E	A 563	0 VDC OPTICS		7
TB3-17H	TB2-31B	A 421	0 VDC OPTICS		7
TB3-17J	J26-R5	A 433	0 VDC OPTICS		7
TB3-17J	J31-CD	A 565	0 VDC OPTICS		7
TB3-17K	J26-R6	A 434	0 VDC OPTICS		7
TB3-17L	J27-R6	A 464	0 VDC OPTICS		7
TB3-17L	J16-EB	A 567	0 VDC OPTICS		7
TB3-17M	J27-S6	A 465	0 VDC OPTICS		7
TB3-17N	TB2-35A	A 483	0 VDC OPTICS		7
TB3-17N	J32-A*	A 569	0 VDC OPTICS		7
TB3-17P	TB2-35B	A 484	0 VDC OPTICS		7
TB3-17P	TB2-35D	A 493	0 VDC OPTICS		7
TB3-17Q	TB2-35C	A 492	0 VDC OPTICS		7
TB3-17Q	J30-P3	A 570	0 VDC OPTICS		7
TB3-17R	TB2-36A	A 486	0 VDC OPTICS		7
TB3-17R	TB2-36C	A 489	0 VDC OPTICS		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE-NONE	REV LTR C	SHEET 169 OF 173

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-17			22 CONTACT BUS BAR ASSY MAKE FROM 1902421 INSULATOR AND 1902422 BUS BAR		
TB3-17S	TB2-36B	A 487	0 VDC OPTICS		7
TB3-17S	TB2-36D	A 490	0 VDC OPTICS		7
TB3-17T	J29-S4	A 494	0 VDC OPTICS		7
TB3-17V	J29-S5	A 495	0 VDC OPTICS		7
TB3-17V	E219	A 572	0 VDC OPTICS		7
TB3-17W	J20-J	A 564	0 VDC OPTICS		7
TB3-17X	J32-C*	A 566	0 VDC OPTICS		7
TB3-17X	J22-R6	A 600	0 VDC OPTICS		7
TB3-17Y	J31-EE	A 568	0 VDC OPTICS		7
TB3-17Y	J32-Z	A 823	0 VDC OPTICS		7
TB3-17Z	J30-P4	A 571	0 VDC OPTICS		7
TB3-17Z	TB3-9A	A 602	0 VDC OPTICS		7
	TB3-18		22 CONTACT BUS BAR ASSY MAKE FROM 1902421 INSULATOR AND 1902422 BUS BAR		
TB3-18A	J5-P	A 540	0 VDC IMU		7
TB3-18A	J22-B5	A 657	0 VDC IMU		7
TB3-18B	J5-R	A 541	0 VDC IMU		7
TB3-18B	TB1-27C	A 656	0 VDC IMU		7
TB3-18C	J2-E	A 538	0 VDC IMU		7
TB3-18C	J22-G5	A 658	0 VDC IMU		7
TB3-18D	J5-N	A 539	0 VDC IMU		7
TB3-18D	TB1-27B	A 655	0 VDC IMU		7
TB3-18F	J15-F	A 536	0 VDC IMU		7
TB3-18F	TB1-6C	A 815	0 VDC IMU		7
TB3-18G	J14-U*	A 537	0 VDC IMU		7
TB3-18H	TB3-4A	A 123	0 VDC IMU		7
TB3-18H	TB2-12C	A 463	0 VDC IMU		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE-NONE	REV LTR C	SHEET 170 OF 173

MIL 2084 4-63

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-18			22 CONTACT BUS BAR ASSY MAKE FROM 1902421 INSULATOR AND 1902422 BUS BAR		
TB3-18J	J15-E	A 535	0 VDC IMU		7
TB3-18J	TB1-28D	A 649	0 VDC IMU		7
TB3-18K	TB1-10C	A 452	0 VDC IMU		7
TB3-18L	TB2-12B	A 462	0 VDC IMU		7
TB3-18L	TB1-28C	A 648	0 VDC IMU		7
TB3-18M	TB1-9C	A 446	0 VDC IMU		7
TB3-18N	TB1-10B	A 451	0 VDC IMU		7
TB3-18N	E219	A 545	0 VDC IMU		7
TB3-18P	TB1-8C	A 441	0 VDC IMU		7
TB3-18Q	TB1-9B	A 445	0 VDC IMU		7
TB3-18Q	J30-H1	A 544	0 VDC IMU		7
TB3-18R	TB1-6B	A 385	0 VDC IMU		7
TB3-18S	TB1-8B	A 440	0 VDC IMU		7
TB3-18S	J30-K2	A 543	0 VDC IMU		7
TB3-18T	J22-B2	A 353	0 VDC IMU		7
TB3-18V	TB1-32B	A 343	0 VDC IMU		7
TB3-18V	TB1-32B	A 344	0 VDC IMU		7
TB3-18W	TB1-37C	A 325	0 VDC IMU		7
TB3-18X	TB1-37D	A 326	0 VDC IMU		7
TB3-18X	J30-K1	A 542	0 VDC IMU		7
TB3-18Y	TB3-4B	A 124	0 VDC IMU		7
TB3-18Z	TB1-51C	A 161	0 VDC IMU		7
TB3-18Z	TB1-51C	A 162	0 VDC IMU		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE-NONE	REV LTR C	SHEET 171 OF 173

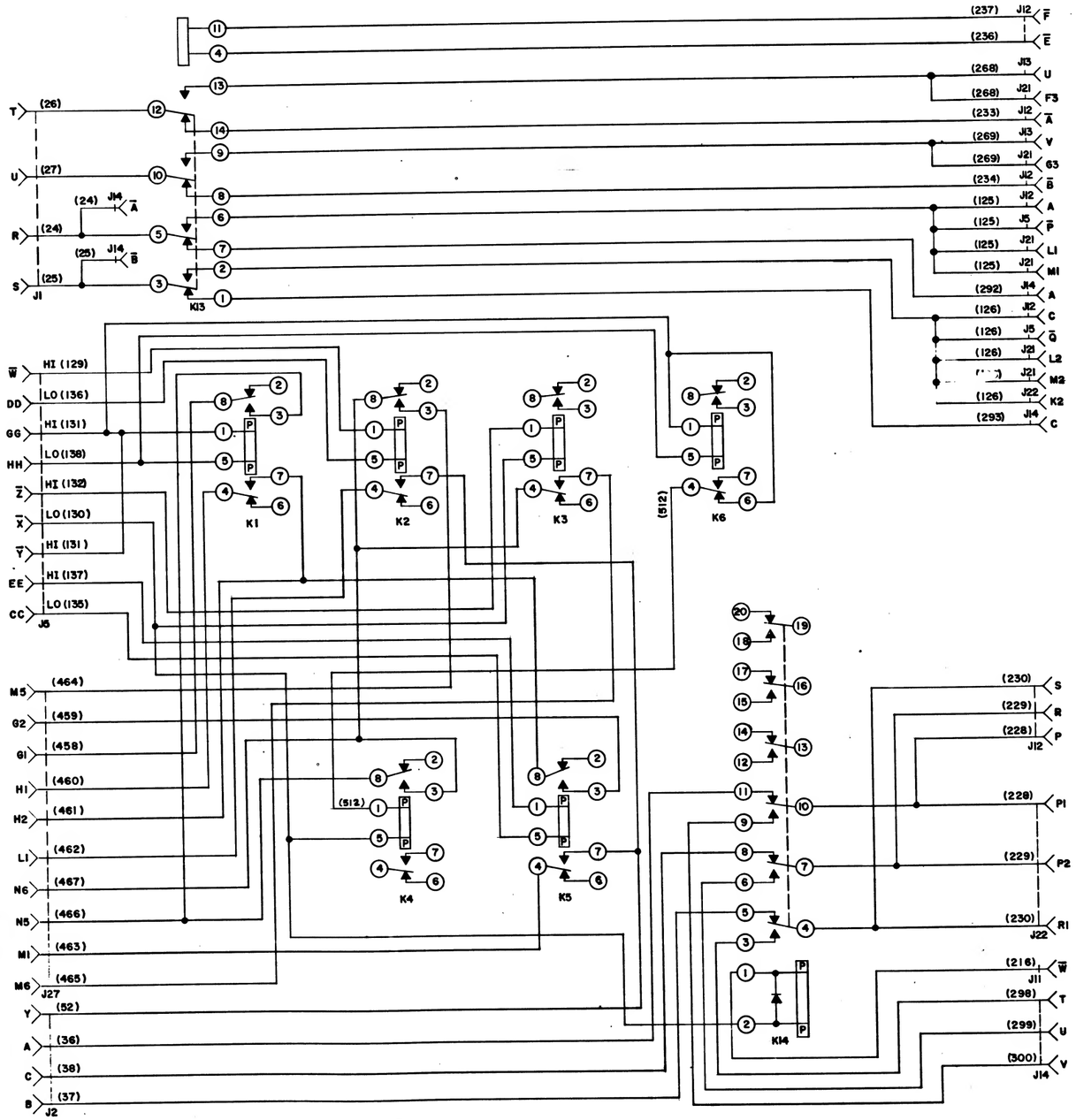
MIL 2084 4-63

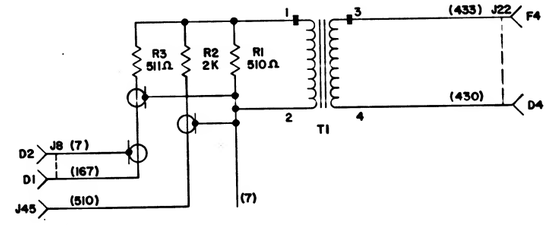
FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB5		TERMINAL BOARD ASSY 1902386		
TB5-1	J22-F4	A 628L	ACCEL FAIL RET	4	433
TB5-2	J22-C4	A 628R	ACCEL FAIL	4	430
TB5-3	SHLD A629	A 629B	0 VDC IMU	4	7
TB5-3	E10	A 630	0 VDC IMU	4	7
TB5-3	SHLD A814	A 814B	0 VDC IMU	4	7
TB5-4	J45	A 814E	ACCEL FAIL	4	510
TB5-5	J8-D1	A 629E	ACCEL FAIL	4	167
TB5-7	J22-F5	A 631L	CDU FAIL RET	4	434
TB5-8	J22-C5	A 631R	CDU FAIL	4	431
TB5-9	SHLD A632	A 632B	0 VDC IMU	4	7
TB5-9	E10	A 633	0 VDC IMU	4	7
TB5-9	SHLD A634	A 634B	0 VDC IMU	4	7
TB5-10	J41	A 634	CDU FAIL	4	508
TB5-11	J8-C1	A 632E	CDU FAIL	4	166
TB5-13	J22-F6	A 635L	IMU FAIL RET	4	435
TB5-14	J22-C6	A 635R	IMU FAIL	4	432
TB5-15	SHLD A636	A 636B	0 VDC IMU	4	7
TB5-15	E10	A 637	0 VDC IMU	4	7
TB5-15	SHLD A638	A 638B	0 VDC IMU	4	7
TB5-16	J43	A 638E	IMU FAIL TEST HI	4	509
TB5-17	J8-B1	A 636E	IMU FAIL	4	165
TB5-19	J30-C3	A 624L	STAR PRESENCE LO	4	502
TB5-20	J30-C4	A 624R	STAR PRESENCE HI	4	503
TB5-21	SHLD A625	A 625B	STAR PRESENCE INPUT LO	4	150
TB5-21	TB2-55D	A 626	STAR PRESENCE INPUT LO	4	150
TB5-21	SHLD A627	A 627B	STAR PRESENCE INPUT LO	4	150
TB5-22	J47	A 627E	STAR PRESENCE TEST HI	4	511
TB5-23	J6-K1	A 625E	STAR PRESENCE HI	4	149

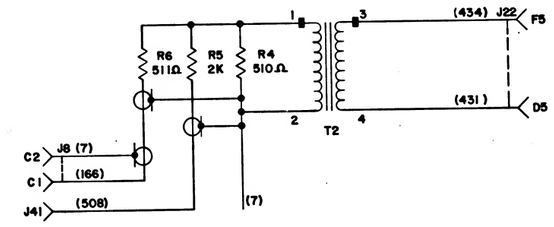
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264
SCALE-NONE	REV LTR C	SHEET 172 OF 173

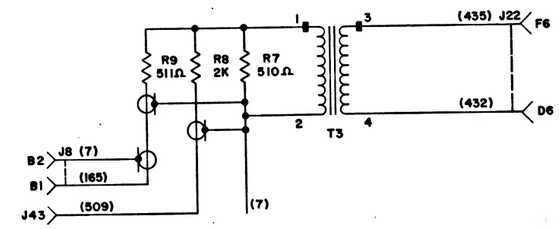
MIL 2084 4-63

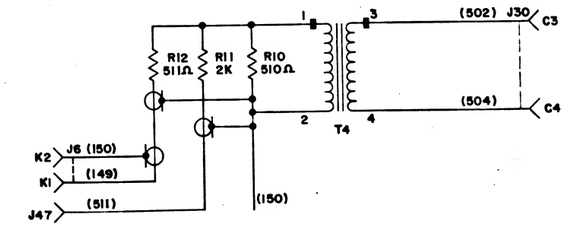
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			











UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — — — — —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	ACSP PN	GSE-PSA JUNCTION BOX SCHEMATIC DIAGRAM	
DO NOT SCALE THIS DRAWING	DRAWN Drake 7-7-65 DATE		
MATERIAL —	CHECKED J. Hayes 7-7-65		
	APPROVAL L.L. Kuhl 7-7-65		
	APPROVAL M. Walker		
CONTRACT NAS9-497	NASA APPROVAL [illegible]	CODE IDENT NO 99974	SIZE E 1902264
	MIT APPROVAL [illegible] 7/20/65	SCALE NONE	SHEET 1 OF 73

1902264

APPLICATION		REVISIONS TDRR 17842			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902195-011	1902195-011	C	REPLACES REVISION B WITH CHANGE PER TDRR 20919	28 MAY 65	DKD / WK.
		D	REVISED PER TDRR 21043	16 AUG 65	R.M.T. / AU

© REPLACES REV(B) WITH CHANGE

REV	C	C	C	C	C	C	C	C	C	C	D	C	C	C	C	C	C	C	C	C	D	D	D	C
SHEET	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
REV STATUS	REV						D	D	D	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS	SHEET						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN G. Hughes 16-MARCH
CHECKED Hughes 7 MAY 65
APPROVAL K.E. Neal 7 MAY 65
APPROVAL M. Wilson 7-12-65

GSE-PSA JUNCTION BOX SCHEMATIC DIAGRAM

NASA APPROVAL
MIT APPROVAL

CODE IDENT NO.	SIZE		REV
99974		1902264	D

CONTRACT NAS9-497 | SCALE — | SHEET 1 OF 173

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
47	C	83	C	119	C	155	C								
48	C	84	C	120	C	156	C								
49	C	85	C	121	C	157	C								
50	C	86	C	122	C	158	C								
51	C	87	C	123	C	159	C								
52	C	88	C	124	C	160	C								
53	C	89	C	125	C	161	C								
54	C	90	C	126	C	162	C								
55	C	91	C	127	C	163	C								
56	C	92	C	128	C	164	C								
57	C	93	C	129	C	165	C								
58	C	94	C	130	C	166	C								
59	C	95	C	131	C	167	C								
60	C	96	C	132	C	168	C								
61	C	97	C	133	C	169	C								
62	C	98	C	134	C	170	C								
63	C	99	C	135	D	171	C								
64	C	100	C	136	D	172	C								
65	C	101	C	137	C	173	C								
66	C	102	C	138	C										
67	C	103	C	139	C										
68	C	104	C	140	C										
69	C	105	C	141	C										
70	C	106	C	142	C										
71	C	107	C	143	C										
72	C	108	C	144	C										
73	C	109	C	145	C										
74	C	110	C	146	C										
75	C	111	C	147	C										
76	D	112	C	148	C										
77	C	113	C	149	C										
78	C	114	C	150	D										
79	C	115	C	151	D										
80	C	116	C	152	C										
81	C	117	C	153	C										
82	C	118	C	154	C										

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION D

NASA DRAWING NO. 1902264
SHEET 2 OF 173

PENNANT NOTE	GENERAL NOTES
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY K - WHITE WITH LETTER K L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER R - WHITE WITH LETTER R OR WHITE WITH RED TRACER W - WHITE OR WHITE WITH LETTER W X - COAX OUTER CONDUCTOR Y - WHITE WITH LETTER Y OR WHITE WITH YELLOW TRACER
3	NETWORK NUMBERS (NET NO.) INDICATE CIRCUIT CONTINUITY BETWEEN AND THRU PARTS WHERE RESISTANCE IS CONSIDERED ZERO FOR TEST PURPOSES, EXCLUDING SWITCHING COMPONENTS.
4	SEE PICTORIAL DIAGRAM FOR NETWORKS INTERRUPTED BY SWITCHING COMPONENTS AND PARTS WHERE RESISTANCE IS NOT CONSIDERED ZERO FOR TEST PURPOSES
5	ALL PART NUMBERS ARE FOR REFERENCE ONLY
6	RELAYS ARE SHOWN IN THE UNENERGIZED OR OFF POSITION
7	BARS PLACED OVER LETTERS OR ASTERISKED SUFFIXES INDICATE LOWER CASE LETTERS.
8	UNLESS OTHERWISE SPECIFIED ALL CONDUCTORS ARE WHITE
9	LAST NETWORK NUMBER USED ~~(512)~~ (514)

PENNANT NOTE	GENERAL NOTES
10	DRAWINGS FOR REFERENCE 1902255 WIRING HARNESS A 1902195 GSE-PSA JUNCTION BOX

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E 1 SPLICER 1016284-001				
E1	J25-A5	A	11R IG DAC MDA SIGNAL LC		1
E1	J26-B1	A	12R IG DAC MDA SIGNAL LC		1
	E 2 SPLICER 1016284-001				
E2	J25-A4	A	11L IG DAC MDA SIGNAL HI		2
E2	J26-B2	A	12L IG DAC MDA SIGNAL HI		2
	E 3 SPLICER 1016284-001				
E3	J25-A7	A	20R MG DAC MDA SIGNAL LC		3
E3	J26-B3	A	21R MG CDU MDA INPUT RETURN		3
	E 4 SPLICER 1016284-001				
E4	J25-A6	A	20L MG DAC MDA SIGNAL HI		4
E4	J26-B4	A	21L MG CDU MDA SIGNAL HI		4
	E 5 SPLICER 1016284-001				
E5	J25-A9	A	31R CG DAC MDA SIGNAL LC		5
E5	J26-B5	A	32R CG CDU MDA INPUT RETURN		5

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E 6 SPLICER 1016284-001				
E6	J25-A8	A	31L CG DAC MDA SIGNAL HI		6
E6	J26-B6	A	32L CG DAC MDA SIGNAL HI		6
	E 7 SPLICE REDUCER 1016006-003				
E7	SHLD A255	A	255B SHIELD GRD		7
E7	SHLD A268	A	268A SHIELD GRD		7
E7	SHLD A271	A	271A SHIELD GRD		7
E7	SHLD A272	A	272A SHIELD GRD		7
E7	SHLD A288	A	288A SHIELD GRD		7
E7	SHLD A294	A	294A SHIELD GRD		7
E7	SHLD A335	A	335A SHIELD GRD		7
E7	SHLD A336	A	336A SHIELD GRD		7
E7	TB3-13A	A	675 SHIELD GRD		7
E7	SHLD A708	A	708A SHIELD GRD		7
E7	SHLD A711	A	711A SHIELD GRD		7
	E 8 SPLICE REDUCER 1016006-003				
E8	SHLD A225	A	225B SHIELD GRD		7
E8	SHLD A232	A	232B SHIELD GRD		7
E8	SHLD A245	A	245B SHIELD GRD		7
E8	SHLD A246	A	246B SHIELD GRD		7
E8	SHLD A247	A	247B SHIELD GRD		7
E8	SHLD A248	A	248B SHIELD GRD		7
E8	SHLD A249	A	249B SHIELD GRD		7
E8	SHLD A250	A	250B SHIELD GRD		7
E8	SHLD A466	A	466B SHIELD GRD		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E 8	SPLICE REDUCER 1016006-003				
E8	SHLD A470	A 470B	SHIELD GRD		7
E8	SHLD A473	A 473B	SHIELD GRD		7
E8	T83-13A	A 676	SHIELD GRD		7
E 9	SPLICE REDUCER 1016006-001				
E9	SHLD A628	A 628A	0 VDC IMU		7
E9	SHLD A631	A 631A	0 VDC IMU		7
E9	SHLD A635	A 635A	0 VDC IMU		7
E9	T81-28A	A 645	0 VDC IMU		7
E10	SPLICE REDUCER 1016006-001				
E10	TH5-3	A 630	0 VDC IMU		7
E10	TH5-9	A 633	0 VDC IMU		7
E10	TH5-15	A 637	0 VDC IMU		7
E10	T81-28A	A 646	0 VDC IMU		7
E11	SPLICE REDUCER 1016006-001				
E11	T83-12A	A 660	400 CPS SHIELD GRD		8
E11	J18-KK	A 661	400 CPS SHIELD GRD		8
E11	J19-KK	A 662	400 CPS SHIELD GRD		8
E11	J31-MM	A 663	400 CPS SHIELD GRD		8
E11	J32-PP	A 664	400 CPS SHIELD GRD		8

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 7 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E12	SPLICE REDUCER 1016006-002				
E12	SHLD A120	A 120B	SHIELD GRD		7
E12	SHLD A121	A 121B	SHIELD GRD		7
E12	SHLD A126	A 126B	SHIELD GRD		7
E12	SHLD A127	A 127B	SHIELD GRD		7
E12	SHLD A128	A 128B	SHIELD GRD		7
E12	SHLD A228	A 228A	SHIELD GRD		7
E12	SHLD A237	A 237A	SHIELD GRD		7
E12	SHLD A273	A 273A	SHIELD GRD		7
E12	SHLD A469	A 469A	SHIELD GRD		7
E12	T83-13B	A 677	SHIELD GRD		7
E13	SPLICE REDUCER 1016006-002				
E13	T83-13C	A 678	SHIELD GRD		7
E13	SHLD A771	A 771A	SHIELD GRD		7
E13	SHLD A806	A 806A	SHIELD GRD		7
E13	SHLD A807	A 8C7A	SHIELD GRD		7
E13	SHLD A809	A 8C9A	SHIELD GRD		7
E13	SHLD A811	A 811A	SHIELD GRD		7
E14	SPLICE REDUCER 1016006-003				
E14	SHLD A387	A 387B	SHIELD GRD		7
E14	SHLD A390	A 390B	SHIELD GRD		7
E14	SHLD A393	A 393B	SHIELD GRD		7
E14	T83-13C	A 679	SHIELD GRD		7
E14	SHLD A777	A 777B	SHIELD GRD		7
E14	SHLD A782	A 782A	SHIELD GRD		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902264 | SCALE-NONE | REV LTR C | SHEET 8 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E14	SPLICE REDUCER 1016006-003				
E14	SHLD A783	A 783A	SHIELD GRD		7
E14	SHLD A787	A 787A	SHIELD GRD		7
E14	SHLD A788	A 788A	SHIELD GRD		7
E14	SHLD A791	A 791A	SHIELD GRD		7
E14	SHLD A792	A 792A	SHIELD GRD		7
E14	SHLD A799	A 799A	SHIELD GRD		7
E14	SHLD A804	A 804A	SHIELD GRD		7
E15	SPLICE REDUCER 1016006-002				
E15	SHLD A209	A 209B	SHIELD GRD		7
E15	SHLD A210	A 210B	SHIELD GRD		7
E15	SHLD A211	A 211B	SHIELD GRD		7
E15	SHLD A212	A 212B	SHIELD GRD		7
E15	SHLD A214	A 214B	SHIELD GRD		7
E15	T83-13D	A 680	SHIELD GRD		7
E15	SHLD A707	A 7C7B	SHIELD GRD		7
E15	SHLD A746	A 746B	SHIELD GRD		7
E15	SHLD A754	A 754B	SHIELD GRD		7
E16	SPLICE REDUCER 1016006-003				
E16	SHLD A82	A 82A	SHIELD GRD		7
E16	SHLD A136	A 136A	SHIELD GRD		7
E16	SHLD A143	A 143A	SHIELD GRD		7
E16	SHLD A152	A 152A	SHIELD GRD		7
E16	SHLD A157	A 157B	SHIELD GRD		7
E16	SHLD A158	A 158B	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E16	SPLICE REDUCER 1016006-003				
E16	SHLD A159	A 159B	SHIELD GRD		7
E16	SHLD A165	A 165B	SHIELD GRD		7
E16	SHLD A167	A 167B	SHIELD GRD		7
E16	SHLD A169	A 169A	SHIELD GRD		7
E16	SHLD A171	A 171A	SHIELD GRD		7
E16	SHLD A173	A 173A	SHIELD GRD		7
E16	T83-13D	A 681	SHIELD GRD		7
E17	SPLICE REDUCER 1016006-002				
E17	SHLD A146	A 146A	SHIELD GRD		7
E17	SHLD A148	A 148A	SHIELD GRD		7
E17	SHLD A175	A 175A	SHIELD GRD		7
E17	SHLD A187	A 187B	SHIELD GRD		7
E17	SHLD A188	A 188B	SHIELD GRD		7
E17	SHLD A189	A 189B	SHIELD GRD		7
E17	SHLD A190	A 190B	SHIELD GRD		7
E17	SHLD A191	A 191B	SHIELD GRD		7
E17	SHLD A192	A 192B	SHIELD GRD		7
E17	T83-14A	A 682	SHIELD GRD		7
E18	SPLICE REDUCER 1016006-003				
E18	SHLD A193	A 193B	SHIELD GRD		7
E18	SHLD A194	A 194B	SHIELD GRD		7
E18	SHLD A195	A 195B	SHIELD GRD		7
E18	SHLD A201	A 201A	SHIELD GRD		7
E18	SHLD A202	A 202B	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E18	SPLICE REDUCER 1016006-003				
E18	SHLD A203	A 203B	SHIELD GRD		7
E18	SHLD A204	A 204B	SHIELD GRD		7
E18	SHLD A205	A 205B	SHIELD GRD		7
E18	SHLD A206	A 206B	SHIELD GRD		7
E18	SHLD A207	A 207B	SHIELD GRD		7
E18	TB3-14A	A 683	SHIELD GRD		7
	E19 SPLICE REDUCER 1016006-002				
E19	SHLD A40	A 40B	SHIELD GRD		7
E19	SHLD A41	A 41B	SHIELD GRD		7
E19	SHLD A53	A 53B	SHIELD GRD		7
E19	SHLD A55	A 55B	SHIELD GRD		7
E19	SHLD A295	A 295B	SHIELD GRD		7
E19	SHLD A308	A 308B	SHIELD GRD		7
E19	SHLD A309	A 309B	SHIELD GRD		7
E19	SHLD A320	A 320B	SHIELD GRD		7
E19	TB3-14B	A 684	SHIELD GRD		7
	E20 SPLICE REDUCER 1016006-003				
E20	SHLD A36	A 36B	SHIELD GRD		7
E20	SHLD A37	A 37B	SHIELD GRD		7
E20	SHLD A38	A 38B	SHIELD GRD		7
E20	SHLD A39	A 39B	SHIELD GRD		7
E20	SHLD A338	A 338A	SHIELD GRD		7
E20	SHLD A339	A 339A	SHIELD GRD		7
E20	SHLD A345	A 345B	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E20	SPLICE REDUCER 1016006-003				
E20	SHLD A346	A 346B	SHIELD GRD		7
E20	SHLD A349	A 349B	SHIELD GRD		7
E20	TB3-14C	A 685	SHIELD GRD		7
	E21 SPLICE REDUCER 1016006-003				
E21	SHLD A73	A 73B	SHIELD GRD		7
E21	SHLD A74	A 74B	SHIELD GRD		7
E21	SHLD A75	A 75B	SHIELD GRD		7
E21	SHLD A76	A 76B	SHIELD GRD		7
E21	SHLD A78	A 78B	SHIELD GRD		7
E21	SHLD A79	A 79B	SHIELD GRD		7
E21	SHLD A80	A 80B	SHIELD GRD		7
E21	SHLD A81	A 81B	SHIELD GRD		7
E21	SHLD A84	A 84B	SHIELD GRD		7
E21	SHLD A642	A 642A	SHIELD GRD		7
E21	TB3-14C	A 686	SHIELD GRD		7
E21	SHLD A763	A 763A	SHIELD GRD		7
E21	SHLD A764	A 764A	SHIELD GRD		7
E21	SHLD A765	A 765A	SHIELD GRD		7
E21	SHLD A766	A 766A	SHIELD GRD		7
	E22 SPLICE REDUCER 1016006-003				
E22	SHLD A133	A 133A	SHIELD GRD		7
E22	SHLD A135	A 135A	SHIELD GRD		7
E22	SHLD A139	A 139B	SHIELD GRD		7
E22	SHLD A142	A 142B	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E22	SPLICE REDUCER 1016006-003				
E22	SHLD A151	A 151A	SHIELD GRD		7
E22	SHLD A370	A 370B	SHIELD GRD		7
E22	SHLD A371	A 371A	SHIELD GRD		7
E22	SHLD A455	A 455A	SHIELD GRD		7
E22	SHLD A611	A 611A	SHIELD GRD		7
E22	SHLD A612	A 612B	SHIELD GRD		7
E22	SHLD A613	A 613B	SHIELD GRD		7
E22	SHLD A620	A 620A	SHIELD GRD		7
E22	TB3-14D	A 687	SHIELD GRD		7
	E23 SPLICE REDUCER 1016006-003				
E23	SHLD A52	A 52A	SHIELD GRD		7
E23	SHLD A54	A 54A	SHIELD GRD		7
E23	SHLD A168	A 168A	SHIELD GRD		7
E23	SHLD A170	A 170A	SHIELD GRD		7
E23	SHLD A172	A 172A	SHIELD GRD		7
E23	SHLD A174	A 174A	SHIELD GRD		7
E23	SHLD A213	A 213A	SHIELD GRD		7
E23	SHLD A215	A 215A	SHIELD GRD		7
E23	SHLD A279	A 279A	SHIELD GRD		7
E23	SHLD A280	A 280A	SHIELD GRD		7
E23	SHLD A281	A 281A	SHIELD GRD		7
E23	SHLD A282	A 282A	SHIELD GRD		7
E23	SHLD A617	A 617A	SHIELD GRD		7
E23	TB3-14D	A 688	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E24 SPLICE REDUCER 1016006-001				
E24	SHLD A116	A 116A	SHIELD GRD		7
E24	SHLD A118	A 118A	SHIELD GRD		7
E24	SHLD A164	A 164A	SHIELD GRD		7
E24	SHLD A166	A 166A	SHIELD GRD		7
E24	TB3-15A	A 689	SHIELD GRD		7
	E25 SPLICE REDUCER 1016006-003				
E25	SHLD A256	A 256A	SHIELD GRD		7
E25	SHLD A259	A 259A	SHIELD GRD		7
E25	SHLD A289	A 289A	SHIELD GRD		7
E25	SHLD A290	A 290A	SHIELD GRD		7
E25	SHLD A291	A 291A	SHIELD GRD		7
E25	SHLD A389	A 389A	SHIELD GRD		7
E25	SHLD A392	A 392A	SHIELD GRD		7
E25	SHLD A622	A 622A	SHIELD GRD		7
E25	TB3-15A	A 690	SHIELD GRD		7
E25	SHLD A770	A 770A	SHIELD GRD		7
E25	SHLD A808	A 808A	SHIELD GRD		7
E25	SHLD A810	A 810A	SHIELD GRD		7
	E26 SPLICE REDUCER 1016006-002				
E26	SHLD A350	A 350A	SHIELD GRD		7
E26	SHLD A351	A 351A	SHIELD GRD		7
E26	SHLD A352	A 352A	SHIELD GRD		7
E26	SHLD A360	A 360A	SHIELD GRD		7
E26	SHLD A361	A 361A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E26			SPLICE REDUCER 1016006-002		
E26	SHLD	A362	A 362A SHIELD GRD		7
E26	SHLD	A367	A 367A SHIELD GRD		7
E26	SHLD	A386	A 386A SHIELD GRD		7
E26	TB3-15B		A 691 SHIELD GRD		7
E26	SHLD	A753	A 753A SHIELD GRD		7
	E27		SPLICE REDUCER 1016006-003		
E27	SHLD	A13	A 13B SHIELD GRD		7
E27	SHLD	A22	A 22B SHIELD GRD		7
E27	SHLD	A33	A 33B SHIELD GRD		7
E27	SHLD	A131	A 131A SHIELD GRD		7
E27	SHLD	A132	A 132A SHIELD GRD		7
E27	SHLD	A137	A 137A SHIELD GRD		7
E27	SHLD	A138	A 138A SHIELD GRD		7
E27	SHLD	A140	A 140A SHIELD GRD		7
E27	SHLD	A144	A 144A SHIELD GRD		7
E27	SHLD	A145	A 145A SHIELD GRD		7
E27	SHLD	A149	A 149A SHIELD GRD		7
E27	TB3-15C		A 692 SHIELD GRD		
	E28		SPLICE REDUCER 1016006-002		
E28	SHLD	A130	A 130A SHIELD GRD		7
E28	SHLD	A153	A 153A SHIELD GRD		7
E28	SHLD	A154	A 154A SHIELD GRD		7
E28	SHLD	A155	A 155A SHIELD GRD		7
E28	SHLD	A156	A 156A SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E28			SPLICE REDUCER 1016006-002		
E28	SHLD	A269	A 269A SHIELD GRD		7
E28	SHLD	A616	A 616B SHIELD GRD		7
E28	TB3-15C		A 693 SHIELD GRD		7
	E29		SPLICE REDUCER 1016006-002		
E29	SHLD	A372	A 372B SHIELD GRD		7
E29	SHLD	A614	A 614A SHIELD GRD		7
E29	SHLD	A615	A 615A SHIELD GRD		7
E29	SHLD	A618	A 618A SHIELD GRD		7
E29	SHLD	A619	A 619A SHIELD GRD		7
E29	TB3-15D		A 694 SHIELD GRD		7
	E30		SPLICE REDUCER 1016006-002		
E30	SHLD	A117	A 117A SHIELD GRD		7
E30	SHLD	A119	A 119A SHIELD GRD		7
E30	SHLD	A229	A 229A SHIELD GRD		7
E30	SHLD	A230	A 230A SHIELD GRD		7
E30	SHLD	A233	A 233A SHIELD GRD		7
E30	TB3-15D		A 695 SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E31		SPLICER 1016284-001		
E31	J25-B3	A 69	AGC COMMON		9
E31	J26-B7	A 817	AGC COMMON		9
	E32		SPLICE REDUCER 1016006-001		
E32	J3-Y	A 285R	OG TORQUE MCT HI		41
E32	J2-H	A 286R	OG TORQUE MCT HI		41
E32	J5-U	A 824	OG TORQUE MCT HI		41
	E33		SPLICE REDUCER 1016006-001		
E33	J3-X	A 285L	OG TORQUE MCT LO		42
E33	J2-J	A 286L	OG TORQUE MCT LO		42
E33	J5-V	A 825	OG TORQUE MCT LO		42
	E34		SPLICE REDUCER 1016006-001		
E34	J3-C*	A 284K	MG TORQUE MCT LO		78
E34	J3-Z	A 284Y	MG TORQUE MCT LO		78
E34	J5-W	A 826	MG TORQUE MCT LO		78

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	E35		SPLICE REDUCER 1016006-001		
E35	J3-B*	A 284L	MG TORQUE MCT HI		79
E35	J3-A*	A 284R	MG TORQUE MCT HI		79
E35	J5-X	A 827	MG TORQUE MCT HI		79
	E36		SPLICE REDUCER 1016006-001		
E36	J3-G*	A 283L	IG TORQUE MCT HI		80
E36	J3-D*	A 283R	IG TORQUE MCT HI		80
E36	J5-Y	A 828	IG TORQUE MCT HI		80
	E37		SPLICE REDUCER 1016006-001		
E37	J3-E*	A 283Y	IG TORQUE MCT LO		81
E37	J3-F*	A 283K	IG TORQUE MCT LO		81
E37	J5-Z	A 829	IG TORQUE MCT LO		81
	E219		INSULATED FEED THROUGH STUD ASSY 1901658		
E219	TB3-18N	A 545	C VDC IMU		7
E219	TB3-17V	A 572	C VDC OPTICS		7
E219	TB3-2M	A 575	STRUCTURE GRD		7
E219	TB3-1V	A 576	SHIELD GRD		7
E219	TB3-7B	A 587	AGC C VDC BUS		7
E219	TB3-7C	A 588	AGC C VDC BUS		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J 1	32 SOCKET CONNECTOR MS3127E18-32S (1897122-320)			
J1-A	J26-S4	A 82R	800 CPS 28V 1 PCT HI IMU		10
J1-B	J26-F4	A 82L	IML RSVR EXC 800 CPS 28V 1 PCT LO IMU		11
J1-C	J26-F7	A 174L	CCS AOG 16 X S3		12
J1-D	J26-C7	A 174R	COS AOG 16 X S1		13
J1-E	J26-C8	A 168R	SIN AOG 16 X S2		14
J1-F	J26-C9	A 168L	SIN AOG 16 X S4		15
J1-G	J26-G3	A 172L	COS AMG 16 X S3		16
J1-H	J26-P3	A 172R	COS AMG 16 X S1		17
J1-J	J25-F8	A 54R	SIN AMG 16 X S2		18
J1-K	J25-F9	A 54L	SIN AMG 16 X S4		19
J1-L	J11-A*	A 282R	COS AMG 1 X S3		20
J1-M	J11-P*	A 282L	COS AMG 1 X S1		21
J1-N	J11-R*	A 28CL	SIN AMG 1 X S2		22
J1-P	J11-C*	A 28CR	SIN AMG 1 X S4		23
J1-R	K13-5	A 614R	3200 CPS 2V HI		24
J1-S	K13-3	A 614L	3200 CPS 2V LO		25
J1-T	K13-12	A 617R	3200 CPS 2V FDBK HI		26
J1-U	K13-10	A 617L	3200 CPS 2V FDBK LO		27
J1-V			SPARE		
J1-W	J26-C1	A 170L	CCS AIG 16 X S3		28
J1-X	J26-P1	A 170R	COS AIG 16 X S1		29
J1-Y	J25-C8	A 52R	SIN AIG 16 X S2		30
J1-Z	J25-C7	A 52L	SIN AIG 16 X S4		31
J1-A*	J11-B*	A 281R	COS AIG 1 X S3		32
J1-B*	J11-C*	A 281L	COS AIG 1 X RET		33
J1-C*			SPARE		
J1-D*			SPARE		
J1-E*			SPARE		
J1-F*	J11-E*	A 279L	SIN AIG 1 X S2		34
J1-G*	J11-D*	A 279R	SIN AIG 1 X S4		35
J1-H*			SPARE		
J1-J*			SPARE		

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J 2	32 SOCKET CONNECTOR MS3127E18-32SX (1897122-322)			
J2-A	K14-11	A 372R	800 CPS 28V 5 PCT IPU WHL PHASE A		36
J2-B	K14-5	A 372L	800 CPS 28V 5 PCT IPU WHL LC		37
J2-C	K14-8	A 372Y	800 CPS 28V 5 PCT IPU WHL PHASE B		38
J2-D	TB2-42C	A 94	+28 VDC IMU		39
J2-E	TB3-18C	A 538	0 VDC IMU		7
J2-F	TB1-5A	A 332	- 28 VDC		40
J2-G	TB3-2P	A 574	STRUCTURE GRD		7
J2-H	E32	A 286R	CG TORQUE MCT HI		41
J2-J	E33	A 286L	CG TORQUE MCT LO		42
J2-K	J27-M2	A 747	IMU TEMP SENSOR COMMON		43
J2-L	J27-B5	A 711L	IRIG TEMP CONT SENSOR RETURN		44
J2-M	J27-B6	A 711R	IRIG TEMP CONT SENSOR HI		45
J2-N	J5-D	A 288R	ACCEL INC SENSOR HI		46
J2-P	J5-E	A 288L	ACCEL INC SENSOR RET		47
J2-R	J27-N4	A 767L	EMERG HTR LC - OPER AND STBY		48
J2-S			SPARE		
J2-T			SPARE		
J2-U			SPARE		
J2-V	J27-P1	A 746R	IMU CONTROL HEATER HI		49
J2-W	J27-N1	A 746L	IMU CONTROL HEATER LO		50
J2-X	J27-P4	A 767R	IMU EMERG HEATER HI		51
J2-Y	K2-7	A 724	EMERG HTR CONT MCC LO		52
J2-Z	J27-C6	A 708R	IRIG TEMP INC SENSOR HI		53
J2-A*	J27-C5	A 708L	IRIG TEMP INC SENSOR RETURN		54
J2-B*	J3C-A6	A 253R	PRESSURE SENSOR + 28 VDC HI		55
J2-C*	J3C-B6	A 253L	PRESSURE SENSOR + 28 VDC LC		56
J2-D*	J3C-A4	A 252R	IMU PRESSURE MONITOR HI		57
J2-E*	J3C-B4	A 252L	IMU PRESSURE MONITOR LO		58
J2-F*	T82-10C	A 754R	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
J2-G*	T82-8B	A 754L	800 CPS 28V 5 PCT L-90 DEG LC IMU		60
J2-H*			SPARE		
J2-J*			SPARE		

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J 3	32 SOCKET CONNECTOR MS3127E18-32SY (1897122-323)			
J3-A			SPARE		
J3-A	TB3-3C	A 116W	X GYRO ERROR SIGNAL		61
J3-B	TB3-3B	A 118W	Z GYRO ERROR SIGNAL		62
J3-C	TB3-6B	A 129R	IMU CG ERROR SIGNAL		63
J3-D	J26-P8	A 166R	CCS AOG 1 X S3		64
J3-E	J26-C8	A 166L	CCS AOG 1 X S1		65
J3-F	J26-A9	A 164L	SIN AOC 1 X S4		66
J3-G	J26-A8	A 164R	SIN AOG 1 X S2		67
J3-H	J21-C1	A 135L	IG CDU ATTITUDE STEERING ERROR		68
J3-J	J21-B1	A 135R	IG CDU ERROR SIGNAL RETURN		69
J3-K	J21-B2	A 142R	MG CDU ERROR SIGNAL RETURN		70
J3-L	J21-C2	A 142L	MG CDU ATTITUDE STEERING ERROR		71
J3-M	J27-C3	A 215L	YAW ERROR BODY OFFSET AXIS LC		72
J3-N	J27-C2	A 215R	PITCH - YAW RSVR S3		73
J3-P	J27-C1	A 213L	PITCH ERROR BODY + BODY OFFSET AXIS LC		74
J3-R	J27-C2	A 213R	PITCH - YAW RSVR S4		75
J3-S			SPARE		
J3-T			SPARE		
J3-U	TB3-6C	A 129L	IMU IG AND Y GYRO ERROR SIGNAL		76
J3-V	TB3-5A	A 129K	0 VLC IMU		7
J3-W	TB3-6D	A 129Y	IMU MG ERROR SIGNAL		77
J3-X	E33	A 285L	CG TORQUE MCT LC		42
J3-Y	E32	A 285R	CG TORQUE MCT HI		41
J3-Z	E34	A 284Y	MG TORQUE MCT LC		78
J3-A*	E35	A 284R	MG TORQUE MCT HI		79
J3-B*	E35	A 284L	MG TORQUE MCT HI		79
J3-C*	E34	A 284K	MG TORQUE MCT LC		78
J3-D*	E36	A 283R	IG TORQUE MCT HI		80
J3-E*	E37	A 283Y	IG TORQUE MCT LC		81
J3-F*	E37	A 283K	IG TORQUE MCT LC		81
J3-G*	E36	A 283L	IG TORQUE MCT HI		80
J3-H*	TB2-43C	A 93	+28 VDC IMU		39

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	J 3	32 SOCKET CONNECTOR MS3127E18-32SY (1897122-323)			
J3-J*	J12-A*	A 816	GIMBAL LOCK SIGNAL		82
	J 4	32 SOCKET CONNECTOR MS3127E18-32SZ (1897122-324)			
J4-A	J24-L6	A 3C9R	Z GYRO TORQUE +		83
J4-B	J24-N6	A 3C9L	Z GYRO TORQUE RETURN		84
J4-C	J24-P6	A 3C9Y	Z GYRO TORQUE -		85
J4-D	J23-C6	A 349R	X GYRO TORQUE +		86
J4-E	J23-F6	A 349L	X GYRO TORQUE RET		87
J4-F	J23-G6	A 349Y	X GYRO TORQUE -		88
J4-G	J24-M1	A 3C8R	Y GYRO TORQUE +		89
J4-H	J24-M3	A 3C8L	Y GYRO TORQUE RETURN		90
J4-J	J24-M2	A 3C8Y	Y GYRO TORQUE -		91
J4-K	J24-P1	A 295R	Z PIP TORQUE +		92
J4-L	J24-P3	A 295L	Z PIP TORQUE RETURN		93
J4-M	J24-P2	A 295Y	Z PIP TORQUE -		94
J4-N	J23-L3	A 346R	Y PIP TORQUE +		95
J4-P	J23-M3	A 346L	Y PIP TORQUE RET		96
J4-R	J23-N3	A 346Y	Y PIP TORQUE -		97
J4-S	J4-T	A 347	SHIELD GRD		7
J4-T	J4-S	A 347	SHIELD GRD		7
J4-T	TB3-1D	A 348	SHIELD GRD		7
J4-U	J23-P1	A 345R	X PIP TORQUE +		98
J4-V	J23-K1	A 345L	X PIP TORQUE RET		99
J4-W	J23-L1	A 345Y	X PIP TORQUE -		100
J4-X	J23-A1	A 335R	X PIP ERROR HI		101
J4-Y	J23-B1	A 335L	X PIP ERROR LO		102
J4-Z	J23-A3	A 336R	Y PIP ERROR HI		103
J4-A*	J23-B3	A 336L	Y PIP ERROR LC		104
J4-B*	J24-A1	A 294R	Z PIP ERROR HI		105

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 4			32 SOCKET CONNECTOR MS3127E18-32SZ (1897122-324)		
J4-C*	J24-A2	A 294L	Z PIP ERROR LO		106
J4-D*			SPARE		
J4-E*	TB3-1B	A 296	SHIELD GRD		7
J4-F*	J21-G1	A 380K	OG ACA		107
J4-G*	J21-H1	A 380Y	MG ACA		108
J4-H*	J21-F1	A 380L	IG ACA		109
J4-J*	J21-G2	A 380R	0 VDC IMU		7
			J 5 55 SOCKET CONNECTOR MS3127E22-55SY (1897054-553)		
J5-A	J27-C5	A 715	ACCEL TEMP IND SENSOR RETURN		110
J5-B	TB3-1S	A 579	SHIELD GRD		7
J5-C			SPARE		
J5-D	J2-N	A 288R	ACCEL IND SENSOR HI		46
J5-E	J2-P	A 288L	ACCEL IND SENSOR RET		47
J5-F	J22-P3	A 366	GC FAIL SIGNAL		111
J5-G			SPARE		
J5-H			SPARE		
J5-J			SPARE		
J5-K			SPARE		
J5-L			SPARE		
J5-M	J13-C	A 287	27 VDC RLP HI ISS ONLY		112
J5-N	TB3-18D	A 539	0 VDC IMU		7
J5-P	TB3-18A	A 540	0 VDC IMU		7
J5-R	TB3-18B	A 541	0 VDC IMU		7
J5-S	TB2-8A	A 753R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
J5-T	TB2-8B	A 753L	800 CPS 28V 5 PCT L-90 DEG LC IMU		60
J5-U	E32	A 824	OG TORQUE MCT HI		41
J5-V	E33	A 825	OG TORQUE MCT LC		42
J5-W	E34	A 826	MG TORQUE MCT LC		78

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 5			55 SOCKET CONNECTOR MS3127E22-55SY (1897054-553)		
J5-X	E35	A 827	MG TORQUE MCT HI		79
J5-Y	E36	A 828	IG TORQUE MCT HI		80
J5-Z	E37	A 829	IG TORQUE MCT LC		81
J5-A*	J22-N1	A 361W	800 CPS 28V 5 PCT IMU WHEELS PHASE A		114
J5-B*	J22-H2	A 360W	3200 CPS 2V HI		115
J5-C*	J22-N4	A 367W	25.6 KC HI IMU		116
J5-D*	J22-N2	A 362W	800 CPS 28V 5 PCT L-90 DEG HI IMU		117
J5-E*	J22-A1	A 352W	IMU IG ANC Y GYRC ERROR SIG		118
J5-F*	J22-A2	A 350W	IMU MG ERROR SIGNAL		119
J5-G*	J22-B1	A 351W	IMU OG ERROR SIGNAL		120
J5-H*	J22-A5	A 354	X PIP ERROR MONITOR		121
J5-I*	J22-A6	A 355	Y PIP ERROR MONITOR		122
J5-J*	J22-B6	A 356	Z PIP ERROR MONITOR		123
J5-K*	TB2-54D	A 597	+ 28 VDC MDV		124
J5-M*			SPARE		
J5-N*			SPARE		
J5-P*	TB1-11C	A 613R	3200 CPS 2V HI		125
J5-Q*	TB1-12B	A 613L	3200 CPS 2V LO		126
J5-R*	J22-P1	A 365	AGC PWR SUPPLY FAIL SIG HI		127
J5-S*			SPARE		
J5-T*	J22-L4	A 364	SPARE FAIL GATE		128
J5-U*			SPARE		
J5-V*			SPARE		
J5-W*	K2-1	A 723R	AUTO OVRC MODE CMC HI		129
J5-X*	K4-5	A 741	PRCP AND BACKUP MODE CMD LO		130
J5-Y*	K6-6	A 743	AUTO OVRC PRCP AND BACKUP MODE CM HI		131
J5-Z*	K3-1	A 744	PRCP MODE CMC HI		132
J5-AA	J27-C7	A 7C9	IRIG TEMP BRIDGE AMPL PIN 6		133
J5-BB	J27-F7	A 714	ACCEL BRIDGE AMPL PIN 6		134
J5-CC	K5-5	A 722L	EMERG MODE CMC LO		135
J5-DD	K2-5	A 723L	AUTO OVRC MODE CMC LO		136
J5-EE	K5-1	A 722R	EMERG MODE CMC HI		137

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 5			55 SOCKET CONNECTOR MS3127E22-55SY (1897054-553)		
J5-FF			SPARE		
J5-GG	K1-1	A 720R	TMC AUTO OVRC AND PROP MODE CMD HI		131
J5-HH	K1-5	A 720L	AUTO OVRC AND PROP MODE CMC LC		138
			J 6 10 PIN CONNECTOR 1016118-100		
J6-A1	TB1-36B	A 319E	GYRO RESET PULSE		139
J6-A2	SHLD A319	A 319X	0 VDC IMU		7
J6-B1	TB1-29C	A 315E	PIPA INTERROGATE PULSE		140
J6-B2	SHLD A315	A 315X	0 VDC IMU		7
J6-C1	TB2-29A	A 4C0E	SHAFT + DELTA THETA CMD		141
J6-C2	SHLD A400	A 4C0X	SHAFT DELTA THETA CMD COMMON		142
J6-D1	TB2-29B	A 4C1E	SHAFT - DELTA THETA CMC		143
J6-D2	SHLD A401	A 4C1X	SHAFT DELTA THETA CMD COMMON		142
J6-E1	TB2-28A	A 397E	TRUNN + DELTA THETA CMC		144
J6-E2	SHLD A397	A 397X	TRUNN DELTA THETA CMD COMMON		145
J6-F1	TB2-28B	A 398E	TRUNN - DELTA THETA CMC		146
J6-F2	SHLD A398	A 398X	TRUNN DELTA THETA CMD COMMON		145
J6-G1	J6-J1	A 292E	CMS 0 VDC SUB-SYSTEM ONLY		147
J6-G2	J6-J2	A 292X	NOT USED		148
J6-H			SPARE		
J6-J1	J6-G1	A 292E	CMS 0 VDC SUB-SYSTEM ONLY		147
J6-J2	J6-G2	A 292X	NOT USED		148
J6-K1	TB5-23	A 625E	STAR PRESENCE HI		149
J6-K2	SHLD A625	A 625X	STAR PRESENCE LO		150

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			J 7 10 PIN CONNECTOR 1016118-101		
J7-A1	TB1-19D	A 185E	COMPUTER 800 PPS IN PHASE SYNC		151
J7-A2	SHLD A185	A 185X	COMPUTER 800 PPS SYNC RETURN		7
J7-B1	TB1-19B	A 184E	COMPUTER 800 PPS CLT OF PHASE SYNC		152
J7-B2	SHLD A184	A 184X	COMPUTER 800 PPS SYNC RETURN		7
J7-C1	TB1-7B	A 383E	COMPUTER 3200 PPS IN PHASE SYNC		153
J7-C2	SHLD A383	A 383X	COMPUTER 3200 PPS SYNC RET		7
J7-D1	TB1-7A	A 382E	COMPUTER 3200 PPS CLT OF PHASE SYNC		154
J7-D2	SHLD A382	A 382X	COMPUTER 3200 PPS SYNC RET		7
J7-E1	TB1-25A	A 357E	COMPUTER 25.6 KPPS IN PHASE SYNC		155
J7-E2	SHLD A357	A 357X	COMPUTER 25.6 KPPS SYNC RET		7
J7-F1	TB1-25B	A 35RE	COMPUTER 25.6 KPPS CUT OF PHASE SYNC		156
J7-F2	SHLD A358	A 358X	COMPUTER 25.6 KPPS SYNC RET		7
J7-G1	TB2-7A	A 7C4E	TRUN ENCODER + DELTA THETA OUTPUT		157
J7-G2	SHLD A704	A 7C4X	TRUN ENCODER DELTA THETA OUTPUT COM		158
J7-H1	TB2-5C	A 701E	SHAFT ENCODER - DELTA THETA OUTPUT		159
J7-H2	SHLD A701	A 701X	SHAFT ENCODER DELTA THETA OUTPUT COM		160
J7-J1	TB2-7C	A 705E	TRUN ENCODER - DELTA THETA OUTPUT		161
J7-J2	SHLD A705	A 705X	TRUN ENCODER DELTA THETA OUTPUT COM		158
J7-K1	TB2-5A	A 700E	SHAFT ENCODER + DELTA THETA OUTPUT		162
J7-K2	SHLD A700	A 700X	SHAFT ENCODER DELTA THETA OUTPUT COM		160
			J 8 10 PIN CONNECTOR 1016118-102		
J8-A1	TB1-22B	A 261E	COMPUTER 102.4 KPPS SYNC		163
J8-A2	SHLD A261	A 261X	COMPUTER 102.4 KPPS SYNC RET		164
J8-B1	TB5-17	A 636E	IMU FAIL		165
J8-B2	SHLD A636	A 636X	IMU FAIL RET		7
J8-C1	TB5-11	A 632E	CDU FAIL		166
J8-C2	SHLD A632	A 632X	CDU FAIL RET		7
J8-D1	TB5-5	A 629E	ACCEL FAIL		167

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 8	10 PIN CONNECTOR 1016118-102				
J8-D2	SHLD A629	A 629X	ACCEL FAIL RET		7
J8-E1	TB1-45A	A 42E	+ DELTA VX		168
J8-E2	SHLD A42	A 42X	COMPUTER RETURN		169
J8-F1	TB1-45B	A 43E	- DELTA VX		170
J8-F2	SHLD A43	A 43X	COMPUTER RETURN		169
J8-G1	TB1-45C	A 44E	+ DELTA VY		171
J8-G2	SHLD A44	A 44X	COMPUTER RETURN		169
J8-H1	TB1-47B	A 47E	- DELTA VZ		172
J8-H2	SHLD A47	A 47X	COMPUTER RETURN		169
J8-J1	TB1-45E	A 45E	- DELTA VY		173
J8-J2	SHLD A45	A 45X	COMPUTER RETURN		169
J8-K1	TB1-47A	A 46E	+ DELTA VZ		174
J8-K2	SHLD A46	A 46X	COMPUTER RETURN		169
	J 9	10 PIN CONNECTOR 1016118-103			
J9-A1	TB1-39C	A 6E	IG CDU + DELTA THETA COMMAND		175
J9-A2	SHLD A6	A 6X	IG DAC MCA SIGNAL LC		1
J9-B1	TB1-39E	A 7E	IG CDU - DELTA THETA COMMAND		176
J9-B2	SHLD A7	A 7X	IG DAC MCA SIGNAL LC		1
J9-C1	TB1-41C	A 16E	MG CDU + DELTA THETA COMMAND		177
J9-C2	SHLD A16	A 16X	MG DAC MCA SIGNAL LC		3
J9-D1	TB1-41D	A 17E	MG CDU - DELTA THETA COMMAND		178
J9-D2	SHLD A17	A 17X	MG DAC MCA SIGNAL LC		3
J9-E1	TB1-43C	A 25E	OG CDU + DELTA THETA COMMAND		179
J9-E2	SHLD A25	A 25X	OG DAC MCA SIGNAL LC		5
J9-F1	TB1-43D	A 26E	OG CDU - DELTA THETA COMMAND		180
J9-F2	SHLD A26	A 26X	OG DAC MCA SIGNAL LC		5
J9-G1	TB1-33B	A 29RE	- CX GYRO RATE		181
J9-G2	SHLD A298	A 298X	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J 9	10 PIN CONNECTOR 1016118-103				
J9-H1	TB1-34A	A 299E	+ CY GYRO RATE		182
J9-H2	SHLD A299	A 299X	0 VDC IMU		7
J9-J1	TB1-33A	A 297E	+ CX GYRO RATE		183
J9-J2	SHLD A297	A 297X	0 VDC IMU		7
J9-K1	TB1-34B	A 3CDE	- CY GYRO RATE		184
J9-K2	SHLD A300	A 3CCX	0 VDC IMU		7
	J10	10 PIN CONNECTOR 1016118-104			
J10-A1	TB1-35B	A 302E	- CZ GYRO RATE		185
J10-A2	SHLD A302	A 302X	0 VDC IMU		7
J10-B1	TB1-35A	A 301E	+ CZ GYRO RATE		186
J10-B2	SHLD A301	A 301X	0 VDC IMU		7
J10-C1	TB1-29A	A 316E	PIPA SWITCHING PULSE		187
J10-C2	SHLD A316	A 316X	0 VDC IMU		7
J10-D1	TB1-26B	A 641E	COMPUTER 12.8 KPPS SYNC		188
J10-D2	SHLD A641	A 641X	0 VDC IMU		7
J10-E1	TB1-39A	A 4E	IG ENCODER + DELTA THETA		189
J10-E2	SHLD A4	A 4X	IG DAC MCA SIGNAL LC		1
J10-F1	TB1-39B	A 5E	IG ENCODER - DELTA THETA		190
J10-F2	SHLD A5	A 5X	IG DAC MCA SIGNAL LC		1
J10-G1	TB1-41A	A 14E	MG ENCODER + DELTA THETA		191
J10-G2	SHLD A14	A 14X	MG DAC MCA SIGNAL LC		3
J10-H1	TB1-43B	A 24E	OG ENCODER - DELTA THETA		192
J10-H2	SHLD A24	A 24X	OG DAC MCA SIGNAL LC		5
J10-J1	TB1-41B	A 15E	MG ENCODER - DELTA THETA		193
J10-J2	SHLD A15	A 15X	MG DAC MCA SIGNAL LC		3
J10-K1	TB1-43A	A 23E	OG ENCODER + DELTA THETA		194
J10-K2	SHLD A23	A 23X	OG DAC MCA SIGNAL LC		5

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J11	61 SOCKET CONNECTOR MS3127E24-61SX (1897056-612)			
J11-A			SPARE		
J11-B			SPARE		
J11-C	J22-G3	A 363	G+N ERROR LIGHT (MAIN PANEL)		195
J11-D	TB1-31B	A 339R	Y PIP ERROR MONITOR		196
J11-E	TB1-31C	A 339L	0 VDC IMU		7
J11-F	TB1-36A	A 32CR	Z PIP ERROR MONITOR		197
J11-G	TB1-37A	A 32CL	0 VDC IMU		7
J11-H	J26-B9	A 165Y	SIN AOG 1 X TC CDU		198
J11-J	J26-A8	A 165R	SIN AOG 1 X S2		67
J11-K	J26-A9	A 165L	SIN AOG 1 X S4		66
J11-L	J27-L3	A 752	IMU TEMP LIGHT (MAIN PANEL)		199
J11-M	J27-A4	A 209R	ROLL ERROR BODY AXIS HI		200
J11-N	J27-B4	A 209L	ROLL ERROR BODY AXIS LO		201
J11-P	J27-C4	A 210R	YAW ERROR BODY AXIS HI		202
J11-R	J27-C4	A 210L	YAW ERROR BODY AXIS LO		203
J11-S	J27-D1	A 212R	PITCH ERROR BODY + BODY OFFSET AXIS HI		204
J11-T	J27-C1	A 212L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74
J11-U	J27-C3	A 214R	YAW ERROR BODY OFFSET AXIS HI		205
J11-V	J27-D3	A 214L	YAW ERROR BODY OFFSET AXIS LC		72
J11-W	J27-A3	A 211R	ROLL ERROR BODY OFFSET AXIS HI		206
J11-X	J27-B3	A 211L	ROLL ERROR BODY OFFSET AXIS LO		207
J11-Y	J22-L2	A 598	G + N ERROR LIGHT HI		208
J11-Z	TB1-31A	A 338R	X PIP ERROR MONITOR		209
J11-A*	TB1-31D	A 338L	0 VDC IMU		7
J11-B*	J1-A*	A 281R	COS AIG 1 X S3		32
J11-C*	J1-B*	A 281L	COS AIG 1 X RET		33
J11-D*	J1-G*	A 279R	SIN AIG 1 X S4		35
J11-E*	J1-F*	A 279L	SIN AIG 1 X S2		34
J11-F*	J26-G1	A 171R	COS AIG 16 X S3		28
J11-G*	J26-G2	A 171L	COS AIG 16 X TC CDU		210
J11-H*	J25-C7	A 53L	SIN AIG 16 X S4		31
J11-I*	J25-F7	A 53R	SIN AIG 16 X TO CDU		211

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J11	61 SOCKET CONNECTOR MS3127E24-61SX (1897056-612)				
J11-J*	J26-R1	A 157R	IG CDU MCA OUTPUT		212
J11-K*	TB1-51A	A 157L	0 VDC IMU		7
J11-P*	J26-P1	A 157Y	IG CDU MCA OUTPUT		213
J11-A*	J1-L	A 282R	COS AMG 1 X S3		20
J11-P*	J1-M	A 282L	COS AMG 1 X S1		21
J11-G*	J1-P	A 280R	SIN AMG 1 X S4		23
J11-R*	J1-N	A 280L	SIN AMG 1 X S2		22
J11-S*	J26-G3	A 173R	COS AMG 16 X S3		16
J11-I*	J26-G4	A 173L	COS AMG 16 X TO CDU		214
J11-U*	J25-F9	A 55L	SIN AMG 16 X S4		19
J11-V*	J25-C9	A 55R	SIN AMG 16 X TC CDU		215
J11-W*	K14-1	A 369	WHEELS DISABLE CMC		216
J11-X*	J26-C9	A 167Y	COS AOG 1 X TC CDU		217
J11-Y*	J26-B8	A 167R	COS AOG 1 X S3		64
J11-Z*	J26-C8	A 167L	COS AOG 1 X S1		65
J11-AA	J26-F7	A 175R	COS AOG 16 X S3		12
J11-BB	J26-F8	A 175L	COS AOG 16 X TO CDU		218
J11-CC	J26-F9	A 169L	SIN AOG 16 X TC CDU		219
J11-DD	J26-E9	A 169R	SIN AOG 16 X S4		15
J11-EE	TB3-3C	A 120R	X GYRO ERROR SIGNAL		61
J11-FF	TB3-4C	A 120L	0 VDC IMU		7
J11-GG	TB3-6C	A 127L	IMU IG AND Y GYRO ERROR SIGNAL		76
J11-HH	TB3-5B	A 127R	0 VDC IMU		7
J11-JJ	TB3-3A	A 121R	Z GYRO ERROR SIGNAL		62
J11-KK	TB3-4D	A 121L	0 VDC IMU		7
J11-LL	TB3-6D	A 126L	IMU MG ERROR SIGNAL		77
J11-MM	TB3-5D	A 126R	0 VDC IMU		7
J11-NN	TB3-6B	A 128L	IMU OG ERROR SIGNAL		63
J11-PP	TB3-5A	A 128R	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J12	61 SOCKET CONNECTOR MS3127E24-61SY (1897056-613)			
J12-A	TB1-11B	A 612R	3200 CPS 2V HI		125
J12-B			SPARE		
J12-C	TB1-12B	A 612L	3200 CPS 2V LO		126
J12-D	J27-B8	A 712	IRIG ZERO DEVIATION CHECK		220
J12-E	J27-C7	A 713	ACCEL ZERO DEVIATION CHECK		221
J12-F	J27-D6	A 748	IMU TEMP CONTROL + 5 DEG GAIN CHECK		222
J12-G	J27-B7	A 749	IMU TEMP CONTROL - 5 DEG GAIN CHECK		223
J12-H	J3C-G2	A 264R	+ 20 VDC CONDITIONING		224
J12-J	J3C-G1	A 264L	0 VDC CONDITIONING		225
J12-K	TB2-42B	A 81B	+28 VDC IMU		39
J12-L			SPARE		
J12-M	TB2-44B	A 272R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J12-N	TB2-44D	A 272L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J12-P	J22-P1	A 37CR	800 CPS 28V 5 PCT IMU WHL PHASE A		228
J12-R	J22-P2	A 37CY	800 CPS 28V 5 PCT IMU WHL PHASE B		229
J12-S	J22-R1	A 37CL	800 CPS 28V 5 PCT IMU WHL LO		230
J12-T	TB1-15A	A 78R	800 CPS 28V 1 PCT HI IMU		10
J12-U	TB1-16A	A 78L	800 CPS 28V 1 PCT LC IMU		231
J12-V	TB1-13B	A 74R	25.6 KC HI IMU		232
J12-W	TB1-14B	A 74L	25.6 KC LC IMU		7
J12-X			SPARE		
J12-Y			SPARE		
J12-Z			SPARE		
J12-A*	K13-14	A 618R	3200 CPS 2V FDBK HI		233
J12-B*	K13-8	A 618L	3000 CPS 2V FDBK LC		234
J12-C*	J22-F3	A 751	0 VDC SPACECRAFT		235
J12-D*	TB2-54C	A 596	+ 28 VDC MDV		124
J12-E*	K13-4	A 60BR	DUCL EXC SWITCHING CMD HI		236
J12-F*	K13-11	A 60BL	DUCL EXC SWITCHING CMD LO		237
J12-G*	J30-A4	A 251R	IMU PRESSURE MONITOR HI		57
J12-H*	J3C-B4	A 251L	IMU PRESSURE MONITOR LO		58
J12-I*	TB1-13A	A 73R	25.6 KC HI IMU		232

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J12	61 SOCKET CONNECTOR MS3127E24-61SY (1897056-613)				
J12-J*	TB1-14A	A 73L	25.6 KC LC IMU		7
J12-K*	J26-R4	A 2C1M	ZEROING RSVR 800 CPS		238
J12-M*	J25-R6	A 71	+28 VDC CDU NOT LOCK		239
J12-N*	J3-J*	A 81G	GIMBAL LOCK SIGNAL		82
J12-P*	J27-P5	A 757	IMU TEMP CONTROL FAIL LIGHT HI		240
J12-Q*	TB2-48B	A 49R	+ 28 VDC STBY		241
J12-R*			SPARE		
J12-S*			SPARE		
J12-T*			SPARE		
J12-U*	J21-D6	A 377R	IG TORQUE MCT HI		242
J12-V*	J21-D5	A 377L	IG TORQUE MCT RETURN		243
J12-W*	J21-F6	A 378R	MG TORQUE MCT HI		244
J12-X*	J21-G6	A 378L	MG TORQUE MCT RETURN		245
J12-Y*	J21-H6	A 379R	OG TORQUE MCT HI		246
J12-Z*	J21-H5	A 379L	OG TORQUE MCT RETURN		247
J12-AA	J27-F5	A 716	ACCEL TEMP (TELEM)		248
J12-BB	J27-F4	A 717	IRIG TEMP (TELEM)		249
J12-CC	J27-F2	A 459	TEMP CONTROL SIG LC		7
J12-DD	J27-F3	A 718	HEATER CURRENT (TELEM)		250
J12-EE	J27-F6	A 719	BLOWER CURRENT SENSOR (TELEM)		251
J12-FF	J3C-D1	A 25BR	+ 2.5 VDC CONDITIONING HI		252
J12-GG	J30-F1	A 25BL	+ 2.5 VDC CONDITIONING LO		253
J12-HH	J26-R3	A 158R	MG CDU MCA OUTPUT		254
J12-JJ	TB1-51B	A 158L	0 VDC IMU		7
J12-KK	J26-P3	A 159Y	MG CDU MCA OUTPUT		255
J12-LL	J26-N1	A 159R	OG CDU MCA OUTPUT		256
J12-MM	TB1-51B	A 159L	0 VDC IMU		7
J12-NN	J26-N2	A 159Y	OG CDU MCA OUTPUT		257
J12-PP	TB2-41D	A 95	+28 VDC IMU		258

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J13	61 SOCKET CONNECTOR MS3127E24-61PY (1897055-613)			
J13-A	SHLD A1	A 1A	IG CDU ENCODER COMMON		259
J13-B			SPARE		
J13-C	J5-M	A 287	27 VDC RLP HI ISS ONLY		112
J13-D	TB2-9B	A 830R	~~SPARE~~ +32VDC PIP		454
J13-E	TB2-10B	A 830Y	~~SPARE~~ +32,+120VDC RET PIP		452
J13-F	TB2-9D	A 830L	~~SPARE~~ +120 VDC PIP		453
J13-G	J25-F1	A 2R	MG CDU ENCODER PHASE 1		260
J13-H	J25-E2	A 2L	MG CDU ENCODER PHASE 2		261
J13-J	J25-F2	A 2Y	MG CDU ENCODER COMMON		262
J13-K	J25-E2	A 1R	IG CDU ENCODER PHASE 1		263
J13-L	J25-E1	A 1L	IG CDU ENCODER PHASE 2		264
J13-M	J25-C1	A 1Y	IG CDU ENCODER COMMON		259
J13-N	J25-E4	A 3R	OG CDU ENCODER PHASE 1		265
J13-P	J25-C3	A 3L	OG CDU ENCODER PHASE 2		266
J13-R	J25-C3	A 3Y	OG CDU ENCODER COMMON		267
J13-S	SHLD A2	A 2A	MG CDU ENCODER COMMON		262
J13-T	SHLD A3	A 3A	OG CDU ENCODER COMMON		267
J13-U	J21-F3	A 62CR	3200 CPS 2V FDBK HI		268
J13-V	J21-G3	A 62CL	3200 CPS 2V FDBK LC		269
J13-W	J27-C8	A 71C	IRIG TEMP GAIN SWITCH NC		270
J13-X			SPARE		
J13-Y			SPARE		
J13-Z			SPARE		
J13-A*			SPARE		
J13-B*			SPARE		
J13-C*			SPARE		
J13-D*	J21-B6	A 376R	IMU IG AND Y GYRC ERROR SIG		271
J13-E*	J13-I*	A 374	IMU GIMBAL AND GYRC ERROR SIG LC		272
J13-F*			SPARE		
J13-G*			SPARE		
J13-H*	J21-A5	A 376L	IMU MG ERROR SIGNAL		273
J13-I*	J13-E*	A 374	IMU GIMBAL AND GYRC ERROR SIG LC		272

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J13	61 SOCKET CONNECTOR MS3127E24-61PY (1897055-613)				
J13-I*	J13-K*	A 375	IMU GIMBAL AND GYRC ERROR SIG LC		272
J13-J*	J21-A6	A 376Y	IMU CG ERROR SIGNAL		274
J13-K*	J13-I*	A 375	IMU GIMBAL AND GYRC ERROR SIG LC		272
J13-K*	J21-B5	A 376K	IMU GIMBAL AND GYRC ERROR SIG LC		272
J13-M*	J26-C1	A 132R	IG CDU 16 X ERROR SIGNAL		275
J13-A*	J26-C2	A 132L	IG CDU ERROR SIGNAL RETURN		69
J13-P*	TB1-2B	A 131R	IG CDU 1 X ERROR SIGNAL		276
J13-C*	TB1-2C	A 131L	IG CDU ERROR SIGNAL RETURN		69
J13-R*	J26-A1	A 13L	IG CDU MCA TACH SIGNAL		277
J13-S*	J26-B1	A 13R	IG CDU MCA INPUT RETURN		1
J13-T*	J26-A2	A 13Y	IG CDU MCA SLEW SIGNAL		278
J13-L*	J26-C3	A 138R	MG CDU 16 X ERROR SIGNAL		279
J13-V*	J26-C4	A 138L	MG CDU ERROR SIGNAL RETURN		70
J13-W*	TB1-3B	A 140R	MG CDU 1 X ERROR SIGNAL		280
J13-X*	TB1-3D	A 140L	MG CDU ERROR SIGNAL RETURN		70
J13-Y*	J26-C3	A 137R	MG CDU 1/2 X ERROR SIGNAL		281
J13-Z*	J26-F3	A 137L	MG CDU ERROR SIGNAL RETURN		282
J13-AA			SPARE		
J13-BB	J26-A3	A 22L	MG CDU MCA TACH SIGNAL		283
J13-CC	J26-B3	A 22R	MG CDU MCA INPUT RETURN		3
J13-DD	J26-A4	A 22Y	MG CDU MCA SLEW SIGNAL		284
J13-EE	TB1-48C	A 145R	OG CDU 16 X ERROR SIGNAL		285
J13-FF	TB1-49B	A 145L	OG CDU ERROR SIGNAL RETURN		286
J13-GG	TB1-4A	A 149R	OG CDU 1 X ERROR SIGNAL		287
J13-HH	TB1-4C	A 149L	OG CDU ERROR SIGNAL RETURN		286
J13-JJ	J26-C5	A 144R	OG CDU 1/2 X ERROR SIGNAL		288
J13-KK	J26-F5	A 144L	OG CDU ERROR SIGNAL RETURN		289
J13-LL	J26-A5	A 33L	OG CDU MCA TACH SIGNAL		290
J13-MM	J26-B5	A 33R	OG CDU MCA INPUT RETURN		5
J13-NN	J26-A6	A 33Y	OG CDU MCA SLEW SIGNAL		291
J13-PP			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J14	61 SOCKET CONNECTOR MS3127E24-61PX (1897055-612)				
J14-J*	J25-B3	A 68	AGC COMMON		9
J14-K*			SPARE		
J14-P*	TB2-44A	A 271R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J14-N*	TB2-44C	A 271L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J14-P*			SPARE		
J14-C*	J26-F4	A 154W	MG CDU 1 X RSVR LCAC		305
J14-R*	J26-F2	A 153W	IG CDU 1 X RSVR LCAC		306
J14-S*	J26-F6	A 155W	CG CDU 1 X RSVR LCAC		307
J14-T*	J26-C7	A 156W	CG CDU 16 X RSVR LCAD		308
J14-U*	TB3-18G	A 537	0 VDC IMU		7
J14-V*	J15-F	A 503	+ 28 VDC AGC BUS A		309
J14-W*	J15-P	A 506	+ 28 VDC AGC BUS B		310
J14-X*	TB3-7A	A 586	AGC 0 VDC BUS		7
J14-Z*	J25-A3	A 70	MANUAL CDU MODE IND TO AGC		311
J14-AA	J25-S3	A 67	LOCK CDU RELAY CONTROL		312
J14-BB	J25-R4	A 34	FINE ALIGN RELAY CONTROL		313
J14-CC	J21-L3	A 373	COARSE ALIGN RELAY CONTROL		314
J14-DD	J26-M1	A 177	ENTRY RELAY CONTROL		315
J14-EE	J25-S1	A 65	ZERO ENCODER RELAY CONTROL		316
J14-FF			SPARE		
J14-GG			SPARE		
J14-HH			SPARE		
J14-JJ			SPARE		
J14-KK			SPARE		
J14-LL	J26-A7	A 176	ZERO ENCODER MODE IND TO AGC		317
J14-MM	J26-C1	A 13CR	IG CDU 1/2 X ERROR SIGNAL		318
J14-NN	J26-F1	A 130L	IG CDU ERROR SIGNAL RETURN		319
J14-PP	J27-T3	A 760	+ 28VDC IMU		320

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J14	61 SOCKET CONNECTOR MS3127E24-61PX (1897055-612)			
J14-A	K13-7	A 616R	3200 CPS 2V HI		292
J14-B			SPARE		
J14-C	K13-1	A 616L	3200 CPS 2V LC		293
J14-D			SPARE		
J14-E			SPARE		
J14-F			SPARE		
J14-G			SPARE		
J14-H			SPARE		
J14-J			SPARE		
J14-K			SPARE		
J14-L			SPARE		
J14-M	J26-S1	A 178	+ 28 VDC IML FOR IG MCA		294
J14-N	J26-T1	A 179	+ 28 VDC IML FOR MG MCA		295
J14-P	J26-T2	A 180	+ 28 VDC IML FOR CG MCA		296
J14-R			SPARE		
J14-S	J27-P6	A 758	CONDITION LAMP TEST		297
J14-T	K14-3	A 821L	800 CPS 28V 5 PCT IMU WHL LO		298
J14-U	K14-6	A 821Y	800 CPS 28V 5 PCT IMU WHL PH B		299
J14-V	K14-9	A 821R	800 CPS 28V 5 PCT IMU WHL PH A		300
J14-W	J15-K	A 509	+ 28 VDC STBY BUS A		301
J14-X	J15-L	A 514	+ 28 VDC STBY BUS B		302
J14-Y	J15-R	A 521	+ 28 VDC IML BUS A		303
J14-Z	J15-C	A 530	+ 28 VDC IMU BUS B		304
J14-A*	K13-5	A 615R	3200 CPS 2V HI		24
J14-B*	K13-3	A 615L	3200 CPS 2V LO		25
J14-C*			SPARE		
J14-D*			SPARE		
J14-E*			SPARE		
J14-F*	TB1-13B	A 75R	25.6 KC HI IMU		232
J14-G*	TB1-14C	A 75L	25.6 KC LC IMU		7
J14-H*	TB1-15D	A 79R	800 CPS 28V 1 PCT HI IMU		10
J14-I*	TB1-16D	A 79L	800 CPS 28V 1 PCT LC IMU		231

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J15	14 SOCKET CONNECTOR MS3102R28-20P (1896862-200)			
J15-A	TB2-50A	A 517	+ 28 VDC IML BUS A		303
J15-A	TB2-50H	A 518	+ 28 VDC IML BUS A		303
J15-B	TB2-50C	A 519	+ 28 VDC IML BUS A		303
J15-B	TB2-50D	A 520	+ 28 VDC IML BUS A		303
J15-B	J14-Y	A 521	+ 28 VDC IMU BUS A		304
J15-C	TB2-51A	A 526	+ 28 VDC IML BUS B		304
J15-C	TB2-51B	A 527	+ 28 VDC IML BUS B		304
J15-D	TB2-51C	A 528	+ 28 VDC IMU BUS B		304
J15-D	TB2-51D	A 529	+ 28 VDC IMU BUS B		304
J15-D	J14-Z	A 530	+ 28 VDC IML BUS B		7
J15-E	TB3-18J	A 535	0 VDC IMU		7
J15-F	TB3-18F	A 536	0 VDC IML		7
J15-G	TB3-1T	A 58C	SHIELD GRD		309
J15-H	J3C-H2	A 501	+ 28 VDC AGC BUS A		309
J15-H	J3C-H2	A 502	+ 28 VDC AGC BUS A		309
J15-H	J14-V*	A 503	+ 28 VDC AGC BUS A		301
J15-J			SPARE		301
J15-K	TB2-49A	A 507	+ 28 VDC STBY BUS A		301
J15-K	TB2-49B	A 508	+ 28 VDC STBY BUS A		302
J15-K	J14-W	A 509	+ 28 VDC STBY BUS A		302
J15-L	TB2-49C	A 512	+ 28 VDC STBY BUS B		302
J15-L	TB2-49D	A 513	+ 28 VDC STBY BUS B		321
J15-L	J14-X	A 514	+ 28 VDC STBY BUS B		322
J15-M	J3C-M3	A 269R	400 CPS 115 V HI		310
J15-N	J3C-M3	A 269L	400 CPS 115 V LO		310
J15-P	J3C-H3	A 504	+ 28 VDC AGC BUS B		310
J15-P	J3C-H3	A 505	+ 28 VDC AGC BUS B		
J15-P	J14-W*	A 506	+ 28 VDC AGC BUS B		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J16	61 SOCKET CONNECTOR MS3127E24-61P (1897055-610)			
J16-A			SPARE		
J16-B	TB3-1A	A 585	SHIELD GRD		7
J16-C	TB2-19B	A 792R	SXT SHAFT TACH FDBK BUFFERED		323
J16-D	TB2-19D	A 792L	0 VDC CPTICS		7
J16-E	TB2-17A	A 787R	SXT SHAFT MCA INPUT BUFFERED		324
J16-F	TB2-17C	A 787L	0 VDC CPTICS		7
J16-G	TB2-32C	A 247R	SHAFT CDU 16 X ERROR SIG BUFF		325
J16-H	TB2-33B	A 247L	0 VDC CPTICS		7
J16-J	TB2-17B	A 783R	SXT SHAFT TACH FDBK BUFFERED		326
J16-K	TB2-17D	A 783L	0 VDC CPTICS		7
J16-L	TB2-27B	A 393R	TRACKER PRE AMP OUTPUT BUFF HI		327
J16-M	TB2-25D	A 393L	TRACKER PRE AMP OUTPUT BUFF LO		7
J16-N	J30-P8	A 255R	PHOTOMETER PREAMP OUTPUT BUFF HI		328
J16-P	J30-P7	A 255L	0 VDC CPTICS		7
J16-R	TB2-24B	A 387R	TRACKER X DRIVE BUFFERED HI		329
J16-S	TB2-26B	A 387L	TRACKER X DRIVE BUFFERED LO		7
J16-T	TB2-24D	A 390R	TRACKER Y DRIVE BUFFERED HI		330
J16-U	TB2-25B	A 390L	TRACKER Y DRIVE BUFFERED LO		7
J16-V			SPARE		
J16-W			SPARE		
J16-X			SPARE		
J16-Y	J32-X	A 822R	STAR SIMULATOR SIG HI		331
J16-Z	J32-Y	A 822L	STAR SIMULATOR SIG LO		332
J16-A*	TB2-34A	A 248R	SHAFT CDU TACH FDBK SIG BUFF		333
J16-B*	TB2-33B	A 248L	0 VDC CPTICS		7
J16-C*	TB2-19A	A 791R	SXT SHAFT 1 X ERROR SIG BUFFERED		334
J16-D*	TB2-19C	A 791L	0 VDC CPTICS		7
J16-E*	TB2-32A	A 245R	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
J16-F*	TB2-33A	A 245L	0 VDC CPTICS		7
J16-G*	TB2-18B	A 788R	SXT TRUN TACH FDBK BUFFERED		336
J16-H*	TB2-18D	A 788L	0 VDC CPTICS		7
J16-J*	TB2-18A	A 787R	SXT TRUN MCA INPUT BUFFERED		337

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J16	61 SOCKET CONNECTOR MS3127E24-61P (1897055-610)				
J16-K*	TB2-18C	A 787L	0 VDC OPTICS		7
J16-M*	TB2-34C	A 250R	SCT TRUN TACH FDBK BUFF		338
J16-N*	TB2-33D	A 250L	0 VDC OPTICS		7
J16-P*	TB2-32B	A 246R	TRUN CDU TACH FDBK BUFF		339
J16-C*	TB2-33A	A 246L	0 VDC OPTICS		7
J16-R*	TB2-34B	A 249R	SCT TRUN 1 X ERROR SIG BUFF		340
J16-S*	TB2-33C	A 249L	0 VDC OPTICS		7
J16-T*			SPARE		
J16-U*			SPARE		
J16-V*			SPARE		
J16-W*			SPARE		
J16-X*			SPARE		
J16-Y*			SPARE		
J16-Z*			SPARE		
J16-AA	TB2-47D	A 427	+ 28 VDC OPTICS		341
J16-BB	TB3-17L	A 567	0 VDC OPTICS		7
J16-CC			SPARE		
J16-DD			SPARE		
J16-EE			SPARE		
J16-FF	TB2-2A	A 2C2R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J16-GG	TB2-3A	A 2C2L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J16-HH	TB1-20D	A 766R	25.6 KC HI OPTICS		344
J16-JJ	TB1-21D	A 766L	25.6 KC LC OPTICS		7
J16-KK			SPARE		
J16-MM	TB1-53B	A 188R	800 CPS 28V 1 PCT HI OPTICS		345
J16-NN	TB2-1B	A 188L	800 CPS 28V 1 PCT LC OPTICS		346
J16-PP			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J17	61 PIN CONNECTOR MS3127E24-61PW (1897055-611)				
J17-A			SPARE		
J17-B			SPARE		
J17-C			SPARE		
J17-D	TB3-10B	A 665R	400 CPS VAR ILLUM PWR		347
J17-E	TB3-11B	A 665L	400 CPS 6V LC		348
J17-F	TB3-10C	A 666R	400 CPS VAR ILLUM PWR		347
J17-G	TB3-11C	A 666L	400 CPS 6V LC		348
J17-H	TB3-12D	A 659	400 CPS SHIELD GRD		8
J17-J	TB3-8A	A 6C1R	SXT SHAFT DRIVE ENABLE		349
J17-K	TB3-8B	A 6C1L	SXT TRUNN DRIVE ENABLE		350
J17-L	TB3-8C	A 6C4	SCT SHAFT DRIVE DISABLE		351
J17-M			SPARE		
J17-N			SPARE		
J17-P	J28-R1	A 216	TRACKER MODE RELAY CMD		352
J17-R	J28-P3	A 812L	COMPUTER RELAY CMD		353
J17-S	J28-P1	A 812R	ZERO OPTICS MODE CMD		354
J17-T	J17-L	A 820	6V 400 CPS LAMP PWR LO		355
J17-U	J17-T	A 820	6V 400 CPS LAMP PWR LO		355
J17-V	J29-F9	A 228R	TRUN HAND CONTROLLER OUTPUT HI		356
J17-W	J29-F8	A 228L	TRUN HAND CONTROLLER OUTPUT LO		357
J17-X			SPARE		
J17-Y			SPARE		
J17-Z	J30-H4	A 273L	800 CPS 28V 1 PCT HI OPTICS TRK PWR		358
J17-A*			SPARE		
J17-B*	J29-C8	A 237R	SHAFT HAND CONTROLLER OUTPUT HI		359
J17-C*	J29-C7	A 237L	SHAFT HAND CONTROLLER OUTPUT LO		360
J17-D*			SPARE		
J17-E*			SPARE		
J17-F*	J29-C3	A 469R	SCT TRUN TRACKER MODE INPUT HI		361
J17-G*	J29-C2	A 469L	SCT TRUN TRACKER MODE INPUT LO		362
J17-H*			SPARE		
J17-I*			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J17	61 PIN CONNECTOR MS3127E24-61PW (1897C55-611)				
J17-J*	J30-F6	A 257R	PHOTOMETER MARK REJECT HI		363
J17-K*	J30-F7	A 257L	PHOTOMETER MARK REJECT LO		364
J17-L*			SPARE		
J17-M*			SPARE		
J17-N*			SPARE		
J17-P*	TB1-53A	A 187R	800 CPS 28V 1 PCT HI OPTICS		345
J17-C*	TB2-1A	A 187L	800 CPS 28V 1 PCT LC OPTICS		346
J17-R*	J28-P2	A 813	0 DEG OFFSET RELAY CMD		365
J17-S*	J28-R2	A 218	25 DEG OFFSET RELAY CMD		366
J17-T*			SPARE		
J17-U*	J29-P6	A 238	RESOLVER MODE RELAY CMD		367
J17-V*	TB3-17D	A 562	0 VDC OPTICS		7
J17-W*			SPARE		
J17-X*			SPARE		
J17-Y*			SPARE		
J17-Z*			SPARE		
J17-AA	TB2-45A	A 274	+ 28 VDC OPTICS TRK PWR		368
J17-BB	J28-T3	A 219	+ 28 VDC OPTICS DAC PWR		369
J17-CC	TB2-47A	A 590	+ 28 VDC OPTICS		370
J17-DD			SPARE		
J17-EE			SPARE		
J17-FF			SPARE		
J17-GG			SPARE		
J17-HH			SPARE		
J17-JJ			SPARE		
J17-KK			SPARE		
J17-LL			SPARE		
J17-MM	J30-F2	A 260	AUTOMATIC MARK CMD		371
J17-NN			SPARE		
J17-PP			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J18	61 SOCKET CONNECTOR MS3127E24-61S (1897056-610)				
J18-A			SPARE		
J18-B	TB3-1G	A 577	SHIELD GRD		7
J18-C			SPARE		
J18-D	TB1-53C	A 189R	800 CPS 28V 1 PCT HI OPTICS		345
J18-E	TB2-1C	A 189L	800 CPS 28V 1 PCT LC OPTICS		346
J18-F	TB2-2B	A 2C2R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J18-G	TB2-3B	A 2C3L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J18-H	TB3-10A	A 667R	400 CPS VAR ILLUM PWR		347
J18-J	TB3-11A	A 667L	400 CPS 6 V LO		348
J18-K	TB1-20B	A 764R	25.6 KC HI OPTICS		344
J18-L	TB1-21B	A 764L	25.6 KC LC OPTICS		7
J18-M	J29-K5	A 230L	SHAFT CDU 1 X RSVR P3		372
J18-N	J29-K4	A 230R	SHAFT CDU 1 X RSVR P1		373
J18-P	J29-G4	A 233L	SHAFT CDU 1 X RSVR P2		374
J18-R	J29-C3	A 233R	SHAFT CDU 1 X RSVR P4		375
J18-S	J29-P4	A 232L	SHAFT CDU 1 X RSVR S3		376
J18-T	J29-P5	A 232Y	SHAFT CDU 1 X RSVR S1		377
J18-U	J29-P3	A 232R	SHAFT CDU 1 X RSVR S2		378
J18-V			SPARE		
J18-W			SPARE		
J18-X			SPARE		
J18-Y			SPARE		
J18-Z	TB2-39D	A 473L	~~SPARE~~ SHAFT CDU MOT PHASE 1		514
J18-A*	J29-C9	A 229L	SHAFT CDU 1/2 X RSVR P3		379
J18-B*	J29-C8	A 229R	SHAFT CDU 1/2 X RSVR P1		380
J18-C*	J32-T	A 29CL	SXT SHAFT 1/2 X RSVR S2		381
J18-D*	J32-S	A 290R	SXT SHAFT 1/2 X RSVR S4		382
J18-E*	J28-B1	A 771L	SXT SHAFT 1/2 X RSVR S1		383
J18-F*	J28-A1	A 771R	SXT SHAFT 1/2 X RSVR S3		384
J18-G*	J32-N	A 289L	SXT SHAFT 16 X RSVR S3		385
J18-H*	J32-M	A 289R	SXT SHAFT 16 X RSVR S1		386
J18-I*	TB2-15B	A 773L	SXT SHAFT 16 X RSVR S2		387

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J18	61 SOCKET CONNECTOR MS3127E24-61S (1897056-610)				
J18-J*	TB2-14D	A 773R	SXT SHAFT 16 X RSVR S4		388
J18-K*	J29-B7	A 235R	SHAFT CDU 16 X RSVR S3		389
J18-L*			SPARE		
J18-M*	J29-B8	A 235L	SHAFT CDU 16 X RSVR S2		390
J18-N*	TB2-39C	A 473Y	SHAFT CDU MOT PHASE 1		391
J18-P*	TB2-39A	A 473R	SHAFT CDU MOT PHASE 2		392
J18-C*	TB2-39B	~~A 473L 0 VDC OPTICS~~	A833 0 VDC OPTICS		7
J18-R*	J27-C9	A 696R	SHAFT CDU ENCODER PHASE 1		393
J18-S*	J27-F9	A 696L	SHAFT CDU ENCODER PHASE 2		394
J18-T*	J27-C9	A 696Y	SHAFT CDU ENCODER COMMON		395
J18-U*	SHLD A696	A 696A	SHAFT CDU ENCODER COMMON		
J18-V*			SPARE		
J18-W*	J29-A9	A 236E	SHAFT CDU TACH HI		396
J18-X*	SHLD A236	A 236A	SHAFT CDU TACH LO		397
J18-Y*			SPARE		
J18-Z*			SPARE		
J18-AA	SHLD A773	A 773A	SXT SHAFT 16X RSVR S4		388
J18-BB	SHLD A235	A 235A	SHAFT CDU 16X RSVR S3		389
J18-CC			SPARE		
J18-DD			SPARE		
J18-EE			SPARE		
J18-FF			SPARE		
J18-GG			SPARE		
J18-HH			SPARE		
J18-JJ			SPARE		
J18-KK	E11	A 661	400 CPS SHIELD GRD		8
J18-LL			SPARE		
J18-MM			SPARE		
J18-NN			SPARE		
J18-PP			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J19 61 SOCKET CONNECTOR MS3127E24-61SW (1897056-611)				
J19-A			SPARE		
J19-B	TB3-1C	A 578	SHIELD GRD		7
J19-C			SPARE		
J19-C			SPARE		
J19-C	TB1-53A	A 190R	800 CPS 28V 1 PCT HI OPTICS		345
J19-E	TB2-1A	A 190L	800 CPS 28V 1 PCT LO OPTICS		346
J19-F	TB2-2C	A 204R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J19-G	TB2-3C	A 204L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J19-H	TB3-1CA	A 66RR	400 CPS VAR ILLUM PWR		347
J19-J	TB3-11A	A 66RL	400 CPS 6V LO		348
J19-K	TB1-20C	A 765R	25.6 KC HI OPTICS		344
J19-L	TB1-21C	A 765L	25.6 KC LO OPTICS		7
J19-M	J29-C5	A 222R	TRUN CDU 1/4 X RSVR P2		398
J19-N	J29-C6	A 222L	TRUN CDU 1/4 X RSVR P3		399
J19-P	J28-F3	A 811L	TRUN CDU 1/4 X RSVR S3		400
J19-R	J28-F2	A 811R	TRUN CDU 1/4 X RSVR S1		401
J19-S	J28-F1	A 809L	TRUN CDU 1/4 X RSVR S2		402
J19-T	J28-C1	A 809R	TRUN CDU 1/4 X RSVR S4		403
J19-U	J29-P2	A 225R	TRUN CDU 1/2 X RSVR P2		404
J19-V	J29-P1	A 225L	TRUN CDU 1/2 X RSVR P3		405
J19-W	J29-K1	A 224R	TRUN CDU 1/2 X RSVR S2		406
J19-X	J29-K2	A 224L	TRUN CDU 1/2 X RSVR S4		407
J19-Y	J29-G1	A 223E	TRUN CDU 1/2 X RSVR S1		408
J19-Z	SHLD A223	A 223A	TRUN CDU 1/2 X RSVR S3		409
J19-A*	TB2-38C	A 470Y	TRUN CDU MOT PHASE 1		410
J19-B*	TB2-38A	A 470R	TRUN CDU MOT PHASE 2		411
J19-C*	TB2-38B	~~A 470L 0 VDC OPTICS~~	A831 0 VDC OPTICS		7
J19-D*	J27-A6	A 697R	TRUN CDU ENCODER PHASE 1		412
J19-E*	J27-A8	A 697L	TRUN CDU ENCODER PHASE 2		413
J19-F*	J27-A7	A 697Y	TRUN CDU ENCODER COMMON		414
J19-G*	SHLD A697	A 697A	TRUNNION CDU ENCODER COMMON		414
J19-H*			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J19	61 SOCKET CONNECTOR MS3127E24-61SW (1897056-611)				
J19-I*			SPARE		
J19-J*			SPARE		
J19-K*			SPARE		
J19-M*	J32-H*	A 291L	SXT TRUN 64 X RSVR S3		415
J19-N*	J32-G*	A 291R	SXT TRUN 64 X RSVR S1		416
J19-P*	TB2-20D	A 794R	SXT TRUN 64 X RSVR S2		417
J19-C*	TB2-21B	A 794L	SXT TRUN 64 X RSVR S4		418
J19-R*	J29-B4	A 226L	TRUN CDU 16 X RSVR S3		419
J19-S*	J29-B5	A 226R	TRUN CDU 16 X RSVR S2		420
J19-T*			SPARE		
J19-U*	TB2-38D	A 470L	~~SPARE~~ TRUN CDU MOT PHASE 1		513
J19-V*			SPARE		
J19-W*	J29-A6	A 227	TRUN CDU TACH HI		421
J19-X*	SHLD A227	A 227A	TRUNNION CDU TACH LO		422
J19-Y*			SPARE		
J19-Z*			SPARE		
J19-AA			SPARE		
J19-BB			SPARE		
J19-CC			SPARE		
J19-DD	SHLD A796	A 794B	SXT TRUNNION 64X RSVR S2		417
J19-EE	SHLD A226	A 226A	TRUNNION CDU 16X RSVR S3		419
J19-FF			SPARE		
J19-KK	E11	A 662	400 CPS SHIELD GRD		8
J19-GG			SPARE		
J19-HH			SPARE		
J19-JJ			SPARE		
J19-LL			SPARE		
J19-MM			SPARE		
J19-NN			SPARE		
J19-PP			SPARE		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J20 14 PIN CONNECTOR MS3102R28-20PW (1896862-201)				
J20-A	TB2-52A	A 546	+ 28 VDC OPTICS BUS A		423
J20-A	TB2-52B	A 547	+ 28 VDC OPTICS BUS A		423
J20-B	TB2-52C	A 548	+ 28 VDC OPTICS BUS A		423
J20-B	TB2-52C	A 549	+ 28 VDC OPTICS BUS A		423
J20-B	J20-A	A 550	+ 28 VDC OPTICS BUS A		423
J20-C	TB2-53A	A 554	+ 28 VDC OPTICS BUS B		424
J20-C	TB2-53B	A 555	+ 28 VDC OPTICS BUS B		424
J20-C	TB2-53C	A 556	+ 28 VDC OPTICS BUS B		424
J20-C	TB2-53D	A 557	+ 28 VDC OPTICS BUS B		424
J20-C	J20-F	A 558	+ 28 VDC OPTICS BUS B		424
J20-E	TB3-17G	A 563	0 VDC OPTICS		7
J20-F	J20-C	A 558	+ 28 VDC OPTICS BUS B		424
J20-G	TB3-1K	A 581	SHIELD GRD		7
J20-H	J20-B	A 550	+ 28 VDC OPTICS BUS A		423
J20-J	TB3-17M	A 564	0 VDC OPTICS		7
J20-K	TB3-1M	A 582	SHIELD GRD		7
J20-L	J20-M	A 293	27 VDC RLP CSS ONLY		425
J20-M	J20-L	A 293	27 VDC RLP CSS ONLY		425
J20-P			SPARE		
	J21 84 SOCKET CONNECTOR 1902080-001				
J21-A1	TB1-2B	A 134R	IG CDU 1 X ERROR SIGNAL		276
J21-A2	TB1-3A	A 141R	MG CDU 1 X ERROR SIGNAL		280
J21-A3	TB1-4A	A 150R	CG CDU 1 X ERROR SIGNAL		287
J21-A4			SPARE		
J21-A5	J13-H*	A 376L	IMU MG ERROR SIGNAL		273
J21-A6	J13-J*	A 376Y	IMU CG ERROR SIGNAL		274
J21-B1	TB1-2C	A 134L	IG CDU ERROR SIGNAL RETURN		69
J21-B1	J3-J	A 135R	IG CDU ERROR SIGNAL RETURN		69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J21		84 SOCKET CONNECTOR 1902080-001			
J21-B2	TB1-3C	A 141L	MG CDU ERROR SIGNAL RETURN		70
J21-B2	J3-K	A 142R	MG CDU ERROR SIGNAL RETURN		70
J21-B3	TB1-4C	A 150L	OG CDU ERROR SIGNAL RETURN		286
J21-B3	J27-B1	A 151R	OG CDU ERROR SIGNAL RETURN		286
J21-B4			SPARE		
J21-B5	J13-K*	A 376K	IMU GIMBAL ANG GYRO ERROR SIG LC		272
J21-B6	J13-C*	A 376R	IMU IG ANG Y GYRO ERROR SIG		271
J21-C1	J3-H	A 135L	IG CDU ATTITUDE STEERING ERROR		68
J21-C2	J3-L	A 142L	MG CDU ATTITUDE STEERING ERROR		71
J21-C3	J27-A1	A 151L	OG CDU ATTITUDE STEERING ERROR		426
J21-C4			SPARE		
J21-C5			SPARE		
J21-C6			SPARE		
J21-D1			SPARE		
J21-D2			SPARE		
J21-D3			SPARE		
J21-D4			SPARE		
J21-D5	J12-V*	A 377L	IG TORQUE MCT RETURN		243
J21-D6	J12-L*	A 377R	IG TORQUE MCT HI		242
J21-F1	J4-H*	A 380L	IG ACA		109
J21-F2			SPARE		
J21-F3	K13-13	A 619R	3200 CPS 2V FDBK HI		268
J21-F3	J13-L	A 620R	3200 CPS 2V FDBK HI		268
J21-F4			SPARE		
J21-F5			SPARE		
J21-F6	J12-H*	A 378R	MG TORQUE MCT HI		244
J21-G1	J4-F*	A 380K	OG ACA		107
J21-G2	J4-J*	A 380R	0 VDC IMU		7
J21-G2	TB1-6A	A 381	0 VDC IMU		7
J21-G3	K13-9	A 619L	3200 CPS 2V FDBK LC		269
J21-G3	J13-V	A 620L	3200 CPS 2V FDBK LC		269
J21-G4			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J21		84 SOCKET CONNECTOR 1902080-001			
J21-G5			SPARE		
J21-G6	J12-X*	A 378L	MG TORQUE MCT RETURN		245
J21-H1	J4-G*	A 380Y	MG ACA		108
J21-H2			SPARE		
J21-H3			SPARE		
J21-H4			SPARE		
J21-H5	J12-Z*	A 379L	OG TORQUE MCT RETURN		247
J21-H6	J12-Y*	A 379R	OG TORQUE MCT HI		246
J21-K1			SPARE		
J21-K2			SPARE		
J21-K3			SPARE		
J21-K4			SPARE		
J21-K5			SPARE		
J21-K6			SPARE		
J21-L1	TB1-11A	A 610R	3200 CPS 2V HI		125
J21-L2	TB1-12C	A 610Y	3200 CPS 2V LO		126
J21-L3	J14-CC	A 373	COARSE ALIGN RELAY CONTROL		314
J21-L4	J22-K3	A 56	STRUCTURE GROUND		7
J21-L5			SPARE		
J21-L6	TB1-7A	A 384R	COMPUTER 3200 PPS OUT OF PHASE SYNC		154
J21-M1	TB1-11B	A 610L	3200 CPS 2V HI		125
J21-M2	TB1-12D	A 610K	3200 CPS 2V LO		126
J21-M3			SPARE		
J21-M4			SPARE		
J21-M5	TB1-6B	A 384L	COMPUTER 3200 PPS SYNC RET		7
J21-M6	TB1-7B	A 384Y	COMPUTER 3200 PPS IN PHASE SYNC		153
J21-N1	TB2-11C	A 455Y	3200 CPS 20 V CT		7
J21-N2	TB2-11B	A 455L	3200 CPS 20 V LO		427
J21-N3	TB1-26A	A 639	COMPUTER 12.8 KPPS SYNC		188
J21-N4	TB1-16B	A 83L	800 CPS 28V 1 PCT LC IMU		231
J21-N5	TB1-15B	A 83R	800 CPS 28V 1 PCT HI IMU		10
J21-N6	TB1-5A	A 333	- 28 VDC		40

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J21		84 SOCKET CONNECTOR 1902080-001			
J21-N6	TB1-5C	A 334	- 28 VDC		40
J21-P1	TB2-11A	A 455R	3200 CPS 20 V HI		428
J21-P2	TB1-8B	A 438	0 VDC IMU		7
J21-P3	J21-R3	A 447	0 VDC IMU		7
J21-P4	J21-P5	A 435	0 VDC IMU		7
J21-P4	J21-R4	A 436	0 VDC IMU		7
J21-P5	J21-P4	A 435	0 VDC IMU		7
J21-P6	TB1-9A	A 444	0 VDC IMU		7
J21-R1	J21-R2	A 442	0 VDC IMU		7
J21-R1	TB1-9C	A 443	0 VDC IMU		7
J21-R2	J21-R1	A 442	0 VDC IMU		7
J21-R3	J21-P3	A 447	0 VDC IMU		7
J21-R3	TB1-10A	A 448	0 VDC IMU		7
J21-R4	J21-P4	A 436	0 VDC IMU		7
J21-R4	TB1-8C	A 437	0 VDC IMU		7
J21-R5	TB1-10B	A 449	0 VDC IMU		7
J21-R6	TB1-10D	A 450	0 VDC IMU		7
J21-S1	TB1-1A	A 98	+28 VDC IMU		258
J21-S2	TB1-1B	A 99	+28 VDC IMU		258
J21-S3	J27-R1	A 759	+28 VDC STBY TO 32CC CPS PWR SUPPLY		429
J21-S4	TB1-1C	A 100	+28 VDC IMU		39
J21-S5	TB1-1D	A 101	+28 VDC IMU		39
J21-S6	TB1-8A	A 439	0 VDC IMU		7
	J22	84 SOCKET CONNECTOR 1902080-002			
J22-A1	J5-E*	A 357M	IMU IG ANG Y GYRO ERROR SIG		118
J22-A2	J5-F*	A 350M	IMU MG ERROR SIGNAL		119
J22-A3			SPARE		
J22-A4			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J22		84 SOCKET CONNECTOR 1902080-002			
J22-A5	J5-H*	A 354	X PIP ERROR MONITOR		121
J22-A6	J5-I*	A 355	Y PIP ERROR MONITOR		122
J22-B1	J5-G*	A 351M	IMU CG ERROR SIGNAL		120
J22-B2	TB3-18T	A 353	0 VDC IMU		7
J22-B3			SPARE		
J22-B4			SPARE		
J22-B5	TB3-18A	A 657	0 VDC IMU		7
J22-B6	J5-J*	A 356	Z PIP ERROR MONITOR		123
J22-C1			SPARE		
J22-C2			SPARE		
J22-C3			SPARE		
J22-C4			SPARE		
J22-C5			SPARE		
J22-C6			SPARE		
J22-E1	TB1-19A	A 186R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
J22-E2	TB1-19C	A 186Y	COMPUTER 800 PPS IN PHASE SYNC		151
J22-E3			SPARE		
J22-E4	TB5-2	A 628R	ACCEL FAIL		430
J22-E5	TB5-8	A 631R	CDU FAIL		431
J22-E6	TB5-14	A 635R	IMU FAIL		432
J22-F1	TB1-18A	A 186L	COMPUTER 800 PPS SYNC RETURN		7
J22-F2	TB1-25C	A 359L	COMPUTER 25.6 KPPS SYNC RET		7
J22-F3	J27-P3	A 75C	C VDC SPACECRAFT		235
J22-F3	J12-C*	A 751	C VDC SPACECRAFT		235
J22-F4	TB5-1	A 628L	ACCEL FAIL RET.		433
J22-F5	TB5-7	A 631L	CDU FAIL RET.		434
J22-F6	TB5-13	A 635L	IMU FAIL RET.		435
J22-G1	TB1-25A	A 359R	COMPUTER 25.6 KPPS IN PHASE SYNC		155
J22-G2	TB1-25B	A 359Y	COMPUTER 25.6 KPPS OUT OF PHASE SYNC		156
J22-G3	J11-C	A 363	G+N ERROR LIGHT (MAIN PANEL)		195
J22-G4	J3C-P6	A 27C	+ 28VDC IMU FOR 800 CPS 5 PCT MTR		436
J22-G5	TB3-18C	A 658	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J22	84 SOCKET CONNECTOR 1902080-002				
J22-G6	J26-N3	A 152W	CG CDU FAILURE INDICATION		437
J22-H1	TB1-22C	A 262L	COMPUTER 102.4 KPPS SYNC RET		164
J22-H2	J5-B*	A 360W	32CC CPS 2V HI		115
J22-H3			SPARE		
J22-H4	TB2-44A	A 268R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J22-H5	J26-P2	A 136W	IG CDU FAILURE INDICATION		438
J22-H6	J26-M3	A 143W	MG CDU FAILURE INDICATION		439
J22-K1	TB1-22A	A 262R	COMPUTER 102.4 KPPS SYNC		163
J22-K2	TB1-12D	A 621	3200 CPS 2V LO		126
J22-K3	J21-L4	A 56	STRUCTURE GROUND		7
J22-K3	J23-C6	A 57	STRUCTURE GROUND		7
J22-K4	TB2-44C	A 268L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
J22-K5			SPARE		
J22-K6	TB1-24C	A 329K	+ 12,32,120 VDC GYRC RET		440
J22-L1	TB2-54A	A 594	+ 28 VDC MDV		124
J22-L2	J11-Y	A 598	G + N ERRCR LIGHT HI		208
J22-L3			SPARE		
J22-L4	J5-T*	A 364	SPARE FAIL GATE		128
J22-L5			SPARE		
J22-L6	TB1-24A	A 329Y	+ 120 VDC GYRC		441
J22-M1	J5-R*	A 365	AGC PWR SUPPLY FAIL SIG HI		127
J22-M2			SPARE		
J22-M3	J5-F	A 366	GC FAIL SIGNAL		111
J22-M4			SPARE		
J22-M5	TB1-23C	A 329L	+ 32 VDC GYRO		442
J22-M6	TB1-23A	A 329R	+ 12 VDC GYRO		443
J22-N1	J5-A*	A 361W	800 CPS 28V 5 PCT IMU WHEELS PHASE A		114
J22-N2	J5-D*	A 362W	800 CPS 28V 5 PCT L-90 DEG HI IMU		117
J22-N3	TB1-15A	A 77R	800 CPS 28V 1 PCT HI IMU		10
J22-N4	J5-C*	A 367W	25.6 KC HI IMU		116
J22-N5	TB1-13A	A 72R	25.6 KC HI IMU		232
J22-N6	J22-R6	A 599	25.6 KC LC CPTICS		7

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SCALE - NONE	REV LTR C	SHEET 51 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J22	84 SOCKET CONNECTOR 1902080-002				
J22-N6	TB1-21B	A 767L	25.6 KC LC CPTICS		7
J22-P1	J12-P	A 370R	800 CPS 28V 5 PCT IMU WHL PHASE A		228
J22-P1	K14-10	A 371R	800 CPS 28V 5 PCT IMU WHL PHASE A		228
J22-P2	J12-R	A 370Y	800 CPS 28V 5 PCT IMU WHL PHASE B		229
J22-P2	K14-7	A 371Y	800 CPS 28V 5 PCT IMU WHL PHASE B		229
J22-P3	TB1-16A	A 77L	800 CPS 28V 1 PCT LC IMU		231
J22-P4	TB1-26A	A 640	COMPUTER 12.8 KPPS SYNC		188
J22-P5	TB1-14A	A 72L	25.6 KC LC IMU		7
J22-P6	TB1-20B	A 762R	25.6 KC HI CPTICS		344
J22-R1	J12-S	A 370L	800 CPS 28V 5 PCT IMU WHL LO		230
J22-R1	K14-4	A 371L	800 CPS 28V 5 PCT IMU WHL LO		230
J22-R2	TB1-28B	A 643	0 VDC IMU		7
J22-R3	TB1-28C	A 644	0 VDC IMU		7
J22-R3	J22-R4	A 650	0 VDC IMU		7
J22-R4	J22-R3	A 650	0 VDC IMU		7
J22-R4	TB1-27B	A 653	0 VDC IMU		7
J22-R5	TB1-27C	A 654	0 VDC IMU		7
J22-R6	J22-N6	A 599	25.6 KC LC CPTICS		7
J22-R6	TB3-17X	A 600	0 VDC CPTICS		7
J22-S1	TB1-17B	A 106	+28 VDC IMU		258
J22-S2	TB1-17C	A 107	+28 VDC IMU		258
J22-S3	TB1-17A	A 108	+28 VDC IMU		258
J22-S4	TB1-17D	A 109	+28 VDC IMU		258
J22-S5	TB2-42B	A 110	+28 VDC IMU		39
J22-S6	TB2-47B	A 589	+28 VDC CPTICS		370

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SCALE - NONE	REV LTR C	SHEET 52 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J23	84 SOCKET CONNECTOR 1902080-003				
J23-A1	J4-X	A 335R	X PIP ERRCR HI		101
J23-A2			SPARE		
J23-A3	J4-Z	A 336R	Y PIP ERRCR HI		103
J23-A4			SPARE		
J23-A5			SPARE		
J23-A6	J24-A6	A 312	X GYRC DC DIFF AMPL OUTPUT		444
J23-B1	J4-Y	A 335L	X PIP ERROR LO		102
J23-B2			SPARE		
J23-B3	J4-A*	A 336L	Y PIP ERRCR LO		104
J23-B4			SPARE		
J23-B5			SPARE		
J23-B6			SPARE		
J23-C1			SPARE		
J23-C2			SPARE		
J23-C3			SPARE		
J23-C4			SPARE		
J23-C5			SPARE		
J23-C6	J22-K3	A 57	STRUCTURE GROUND		7
J23-C6	J24-F5	A 58	STRUCTURE GROUND		7
J23-C1	J25-L4	A 36W	PX		445
J23-C2	TB1-31A	A 337R	X PIP ERRCR MONITCR		209
J23-D3	J25-L3	A 38W	PY		446
J23-C4			SPARE		
J23-C5			SPARE		
J23-C6	J4-C	A 349R	X GYRO TCRQUE +		86
J23-F1	J25-M4	A 37W	NX		447
J23-F2	TB1-31B	A 337L	Y PIP ERRCR MONITCR		196
J23-F3	J25-M3	A 39W	NY		448
J23-F4			SPARE		
J23-F5			SPARE		
J23-F6	J4-E	A 349L	X GYRO TCRQUE RET		87
J23-G1			SPARE		

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SCALE - NONE	REV LTR C	SHEET 53 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J23	84 SOCKET CONNECTOR 1902080-003				
J23-G2			SPARE		
J23-G3			SPARE		
J23-G4			SPARE		
J23-G5			SPARE		
J23-G6	J4-F	A 349Y	X GYRO TCRQUE -		88
J23-H1	J4-U	A 345R	X PIP TORQUE +		98
J23-H2			SPARE		
J23-H3			SPARE		
J23-H4			SPARE		
J23-H5			SPARE		
J23-H6	J24-G1	A 310	X GYRO CAL CUMPY		449
J23-K1	J4-V	A 345L	X PIP TORQUE RET		99
J23-K2			SPARE		
J23-K3			SPARE		
J23-K4			SPARE		
J23-K5			SPARE		
J23-K6	J24-H1	A 311R	X GYRO TERNARY CUR SWITCH TORQUE +		450
J23-L1	J4-W	A 345Y	X PIP TORQUE -		100
J23-L2			SPARE		
J23-L3	J4-N	A 346R	Y PIP TORQUE +		95
J23-L4			SPARE		
J23-L5			SPARE		
J23-L6	J24-K1	A 311L	X GYRO TERNARY CUR SWITCH TORQUE -		451
J23-M1			SPARE		
J23-M2			SPARE		
J23-M3	J4-P	A 346L	Y PIP TORQUE RET		96
J23-M4			SPARE		
J23-M5			SPARE		
J23-M6			SPARE		
J23-N1			SPARE		
J23-N2			SPARE		
J23-N3	J4-R	A 346Y	Y PIP TORQUE -		97

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SCALE - NONE	REV LTR C	SHEET 54 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J23	84 SOCKET CONNECTOR 1902080-003				
J23-N4			SPARE		
J23-N5	TB1-29C	A 317	PIPA INTERROGATE PULSE		140
J23-N6	TB1-29A	A 318	PIPA SWITCHING PULSE		187
J23-P1			SPARE		
J23-P2			SPARE		
J23-P3			SPARE		
J23-P4			SPARE		
J23-P5			SPARE		
J23-P6	TB1-5B	A 331	- 28 VDC		40
J23-R1	TB1-24D	A 328Y	+ 12,32,120 VDC GYRO RET		440
J23-R2	TB2-10B	A 769Y	+ 32, +120 VDC RET PIP		452
J23-R3			SPARE		
J23-R4			SPARE		
J23-R5			SPARE		
J23-R6	TB1-32C	A 342	0 VDC IMU		7
J23-S1	TB1-24B	A 32RL	+ 120 VDC GYRO		441
J23-S2	TB2-9C	A 769L	+ 120 VDC PIP		453
J23-S3	TB1-23D	A 328R	+ 32 VDC GYRO		442
J23-S4	TB2-9B	A 769R	+ 32 VDC PIP		454
J23-S5			SPARE		
J23-S6	TB2-43D	A 111	+ 28 VDC IMU		39
	J24	84 SOCKET CONNECTOR 1902080-004			
J24-A1	J4-B*	A 294R	Z PIP ERROR HI		105
J24-A2	J4-C*	A 294L	Z PIP ERROR LO		106
J24-A3			SPARE		
J24-A4			SPARE		
J24-A5			SPARE		
J24-A6	J23-A6	A 312	X GYRO DC DIFF AMPL OUTPUT		444

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902264	
SCALE-NONE	REV LTR C		SHEET 55 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J24	84 SOCKET CONNECTOR 1902080-004				
J24-B1			SPARE		
J24-B2			SPARE		
J24-B3			SPARE		
J24-B4			SPARE		
J24-B5			SPARE		
J24-B6			SPARE		
J24-C1			SPARE		
J24-C2			SPARE		
J24-C3			SPARE		
J24-C4			SPARE		
J24-C5			SPARE		
J24-C6			SPARE		
J24-D1	TB1-33A	A 3C5R	+ DX GYRO RATE		183
J24-D2	TB1-33B	A 3C5L	- DX GYRO RATE		181
J24-D3	TB1-34A	A 3C6R	+ DY GYRO RATE		182
J24-D4	TB1-34B	A 3C6L	- DY GYRO RATE		184
J24-D5	TB1-35A	A 3C7R	+ DZ GYRO RATE		186
J24-D6	TB1-35B	A 3C7L	- DZ GYRO RATE		185
J24-F1			SPARE		
J24-F2			SPARE		
J24-F3			SPARE		
J24-F4			SPARE		
J24-F5			SPARE		
J24-F6	J25-L2	A 40W	PZ		455
J24-G1	J23-H6	A 310	X GYRO CAL DUMMY		449
J24-G2			SPARE		
J24-G3			SPARE		
J24-G4			SPARE		
J24-G5			SPARE		
J24-G6	J25-P2	A 41W	NZ		456
J24-H1	J23-K6	A 311R	X GYRO TERNARY CURR SWITCH TORQUE +		450
J24-H2			SPARE		

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SCALE-NONE	REV LTR C		SHEET 56 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J24	84 SOCKET CONNECTOR 1902080-004				
J24-H3	TB1-29D	A 314	PIPA INTERROGATE PULSE		140
J24-H4			SPARE		
J24-H5	J23-C6	A 58	STRUCTURE GROUND		7
J24-H5	J25-K3	A 59	STRUCTURE GROUND		7
J24-H6	TB1-36A	A 321	Z PIP ERROR MONITOR		197
J24-K1	J23-L6	A 311L	X GYRO TERNARY CURR SWITCH TORQUE -		451
J24-K2			SPARE		
J24-K3	TB1-29B	A 313	PIPA SWITCHING PULSE		187
J24-K4	TB1-36B	A 322	GYRO RESET PULSE		139
J24-K5			SPARE		
J24-K6			SPARE		
J24-L1			SPARE		
J24-L2			SPARE		
J24-L3			SPARE		
J24-L4			SPARE		
J24-L5			SPARE		
J24-L6	J4-A	A 3C9R	Z GYRO TORQUE +		83
J24-M1	J4-G	A 3C8R	Y GYRO TORQUE +		89
J24-M2	J4-J	A 3C8Y	Y GYRO TORQUE -		91
J24-M3	J4-H	A 3C8L	Y GYRO TORQUE RETURN		90
J24-M4			SPARE		
J24-M5			SPARE		
J24-M6	J4-C	A 3C9Y	Z GYRO TORQUE -		85
J24-N1			SPARE		
J24-N2			SPARE		
J24-N3			SPARE		
J24-N4			SPARE		
J24-N5			SPARE		
J24-N6	J4-B	A 3C9L	Z GYRO TORQUE RETURN		84
J24-P1	J4-K	A 295R	Z PIP TORQUE +		92
J24-P2	J4-M	A 295Y	Z PIP TORQUE -		94
J24-P3	J4-L	A 295L	Z PIP TORQUE RETURN		93

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SCALE-NONE	REV LTR C		SHEET 57 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J24	84 SOCKET CONNECTOR 1902080-004				
J24-P4			SPARE		
J24-P5			SPARE		
J24-P6	TB1-5B	A 330	- 28 VDC		40
J24-R1	TB2-10A	A 769Y	+ 32, +120 VDC RET PIP		452
J24-R2	TB1-24C	A 327K	+ 12,32,120 VDC GYRO RET		440
J24-R3			SPARE		
J24-R4			SPARE		
J24-R5			SPARE		
J24-R6	TB1-37B	A 323	0 VDC IMU		7
J24-S1	TB2-9C	A 769L	+ 120 VDC PIP		453
J24-S2	TB1-24A	A 327Y	+ 120 VDC GYRO		441
J24-S3	TB1-23A	A 327R	+ 12 VDC GYRO		443
J24-S4	TB2-9A	A 769R	+ 32 VDC PIP		454
J24-S5	TB1-23C	A 327L	+ 32 VDC GYRO		442
J24-S6	TB2-42A	A 112	+ 28 VDC IMU		39
	J25	105 SOCKET CONNECTOR 1902080-006			
J25-A1	TB3-3B	A 119W	Z GYRO ERROR SIGNAL		62
J25-A2			SPARE		
J25-A3	J14-Z*	A 7C	MANUAL CDU MODE IND TC AGC		311
J25-A4	E2	A 11L	IG DAC MDA SIGNAL HI		2
J25-A5	TB1-40A	A 10	IG DAC MDA SIGNAL LC		1
J25-A5	E1	A 11R	IG DAC MDA SIGNAL LC		1
J25-A6	E4	A 20L	MG DAC MDA SIGNAL HI		4
J25-A7	TB1-42A	A 19	MG DAC MDA SIGNAL LC		3
J25-A7	E3	A 20R	MG DAC MDA SIGNAL LC		3
J25-A8	E6	A 31L	OG DAC MDA SIGNAL HI		6
J25-A9	TB1-44A	A 30	OG DAC MDA SIGNAL LC		5
J25-A9	E5	A 31R	OG DAC MDA SIGNAL LC		5

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SCALE-NONE	REV LTR C		SHEET 58 OF 178

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-B1	TB3-3D	A 117W	X GYRO ERROR SIGNAL		61
J25-B2			SPARE		
J25-B3	J14-J*	A 68	AGC COMMON		9
J25-B3	E31	A 69	AGC COMMON		9
J25-B4	TB1-39A	A 8R	IG ENCODER + DELTA THETA		189
J25-B5	TB1-39C	A 9R	IG CDU + DELTA THETA COMMAND		175
J25-B6	TB1-41A	A 18R	MG ENCODER + DELTA THETA		191
J25-B7	TB1-41C	A 28R	MG CDU + DELTA THETA COMMAND		177
J25-B8	TB1-43A	A 27R	OG ENCODER + DELTA THETA		179
J25-B9	TB1-43C	A 29R	OG CDU + DELTA THETA COMMAND		179
J25-C1	SHLD A1	A 1B	IG CDU ENCODER COMMON		259
J25-C1	J13-M	A 1Y	IG CDU ENCODER COMMON		259
J25-C2	J13-K	A 1R	IG CDU ENCODER PHASE 1		263
J25-C3	J13-P	A 3L	OG CDU ENCODER PHASE 2		266
J25-C4	TB1-39B	A 8L	IG ENCODER - DELTA THETA		190
J25-C5	TB1-39D	A 9L	IG CDU - DELTA THETA COMMAND		176
J25-C6	TB1-41B	A 19L	MG ENCODER - DELTA THETA		193
J25-C7	TB1-41D	A 29L	MG CDU - DELTA THETA COMMAND		178
J25-C8	TB1-43B	A 27L	OG ENCODER - DELTA THETA		192
J25-C9	TB1-43D	A 29L	OG CDU - DELTA THETA COMMAND		180
J25-D1	J13-L	A 1L	IG CDU ENCODER PHASE 2		264
J25-D2	J13-H	A 2L	MG CDU ENCODER PHASE 2		261
J25-D3	SHLD A3	A 3B	OG CDU ENCODER COMMON		267
J25-D3	J13-R	A 3Y	OG CDU ENCODER COMMON		267
J25-D4	J13-N	A 3R	OG CDU ENCODER PHASE 1		265
J25-D5			SPARE		
J25-D6			SPARE		
J25-D7	J1-Z	A 52L	SIN AIG 16 X S4		31
J25-D7	J11-H*	A 53L	SIN AIG 16 X S4		31
J25-D8	J1-Y	A 52R	SIN AIG 16 X S2		30
J25-D9	J11-V*	A 55R	SIN AMG 16 X TC CDU		215
J25-F1	J13-G	A 2R	MG CDU ENCODER PHASE 1		260

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-F2	SHLD A2	A 2B	MG CDU ENCODER COMMON		262
J25-F2	J13-J	A 2Y	MG CDU ENCODER COMMON		262
J25-F3			SPARE		
J25-F4			SPARE		
J25-F5			SPARE		
J25-F6			SPARE		
J25-F7	J11-I*	A 53R	SIN AIG 16 X TC CDU		211
J25-F8	J1-J	A 54R	SIN AMG 16 X S2		18
J25-F9	J1-K	A 54L	SIN AMG 16 X S4		19
J25-F9	J11-L*	A 55L	SIN AMG 16 X S4		19
J25-G1			SPARE		
J25-G2			SPARE		
J25-G3			SPARE		
J25-G4			SPARE		
J25-G5			SPARE		
J25-G6			SPARE		
J25-H1			SPARE		
J25-H2			SPARE		
J25-H3			SPARE		
J25-H4	J14-BB	A 34	FINE ALIGN RELAY CONTROL		313
J25-H4	J26-L1	A 35	FINE ALIGN RELAY CONTROL		313
J25-H5			SPARE		
J25-H6			SPARE		
J25-K1			SPARE		
J25-K2			SPARE		
J25-K3	J24-H5	A 59	STRUCTURE GROUND		7
J25-K3	TB3-2V	A 60	STRUCTURE GROUND		7
J25-K4	TB1-47B	A 50L	- DELTA VZ		172
J25-K5	TB1-47A	A 50R	+ DELTA VZ		174
J25-K6	TB1-45D	A 49L	- DELTA VY		173
J25-L1			SPARE		
J25-L2	J24-F6	A 40W	PZ		455

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-L3	J23-C3	A 38W	PY		446
J25-L4	J23-C1	A 36W	PX		445
J25-L5	TB1-46C	A 51	COMPUTER RETURN		169
J25-L6	TB1-45C	A 49R	+ DELTA VY		171
J25-M1			SPARE		
J25-M2	J24-G6	A 41W	NZ		456
J25-M3	J23-F3	A 39W	NY		448
J25-M4	J23-F1	A 37W	NX		447
J25-M5	TB1-45A	A 48R	+ DELTA VX		168
J25-M6	TB1-45B	A 48L	- DELTA VX		170
J25-N1			SPARE		
J25-N2			SPARE		
J25-N3			SPARE		
J25-N4			SPARE		
J25-N5	TB1-14D	A 76L	25.6 KC LC IMU		7
J25-N6	TB1-13C	A 76R	25.6 KC HI IMU		232
J25-P1			SPARE		
J25-P2			SPARE		
J25-P3			SPARE		
J25-P4			SPARE		
J25-P5	TB1-16B	A 80L	800 CPS 28V 1 PCT LC IMU		231
J25-P6	TB1-15B	A 80R	800 CPS 28V 1 PCT HI IMU		10
J25-R1			SPARE		
J25-R2	TB3-4D	A 122	0 VDC IMU		7
J25-R3			SPARE		
J25-R4			SPARE		
J25-R5			SPARE		
J25-R6	J12-P*	A 71	+28 VDC CDU NOT LOCK		239
J25-S1	J14-EE	A 65	ZERO ENCODER RELAY CONTROL		316
J25-S1	J26-L2	A 66	ZERO ENCODER RELAY CONTROL		316
J25-S2	TB2-42C	A 113	+28 VDC IMU		39
J25-S3	J14-AA	A 67	LOCK CDU RELAY CONTROL		312

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J25	105 SOCKET CONNECTOR 1902080-006				
J25-S4			SPARE		446
J25-S5			SPARE		445
J25-S6	TB2-43A	A 114	+28 VDC IMU		39
J25-T1			SPARE		
J25-T2			SPARE		
J25-T3			SPARE		
J25-T4			SPARE		
J25-T5			SPARE		
J25-T6			SPARE		
	J26	105 SOCKET CONNECTOR 1902080-007			
J26-A1	J13-R*	A 13L	IG CDU MCA TACH SIGNAL		277
J26-A2	J13-T*	A 13Y	IG CDU MCA SLEW SIGNAL		278
J26-A3	J13-BB	A 22L	MG CDU MCA TACH SIGNAL		283
J26-A4	J13-CC	A 22Y	MG CDU MCA SLEW SIGNAL		284
J26-A5	J13-LL	A 33L	OG CDU MCA TACH SIGNAL		290
J26-A6	J13-NN	A 33Y	OG CDU MCA SLEW SIGNAL		291
J26-A7	J14-LL	A 176	ZERO ENCODER MODE IND TO AGC		317
J26-A8	J3-G	A 164R	SIN AOG 1 X S2		67
J26-A8	J11-J	A 164R	SIN AOG 1 X S2		67
J26-A9	J3-F	A 164L	SIN AOG 1 X S4		66
J26-A9	J11-K	A 165L	SIN AOC 1 X S4		66
J26-B1	E1	A 12R	IG CAC MCA SIGNAL LC		1
J26-B1	J13-S*	A 13R	IG CDU MCA INPUT RETURN		1
J26-B2	E2	A 12L	IG CAC MCA SIGNAL HI		2
J26-B3	E3	A 21R	MG CDU MCA INPUT RETURN		3
J26-B3	J13-CC	A 22R	MG CDU MCA INPUT RETURN		3
J26-B4	E4	A 21L	MG CDU MCA SIGNAL HI		4
J26-B5	E5	A 32R	OG CDU MCA INPUT RETURN		5

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-B5	J13-MM	A 33R	OG CDU MDA INPUT RETURN		5
J26-B6	E6	A 32L	OG CAC MDA SIGNAL HI		6
J26-B7	E31	A 817	AGC COMMON		9
J26-B8	J3-D	A 166R	COS AOG 1 X S3		64
J26-B8	J11-Y*	A 167R	COS AOG 1 X S3		64
J26-B9	J11-h	A 165Y	SIN AOG 1 X TO CDU		198
J26-C1	J13-M*	A 132R	IG CDU 16 X ERROR SIGNAL		275
J26-C2	TB1-2A	A 133R	IG CDU 1 X ERROR SIGNAL		276
J26-C3	J13-L*	A 138R	MG CDU 16 X ERROR SIGNAL		279
J26-C4	TB1-3A	A 139R	MG CDU 1 X ERROR SIGNAL		280
J26-C5	TB1-48C	A 147Y	OG CDU 16 X ERROR SIGNAL		285
J26-C6	TB1-48A	A 147R	OG CDU 1 X ERROR SIGNAL		287
J26-C7	J14-T*	A 156W	OG CDU 16 X RSVR LOAD		308
J26-C8	J3-E	A 166L	COS AOG 1 X S1		65
J26-C8	J11-Z*	A 167L	COS AOG 1 X S1		65
J26-C9	J11-X*	A 167Y	COS AOG 1 X TO CDU		217
J26-C1	J14-MM	A 13CR	IG CDU 1/2 X ERROR SIGNAL		318
J26-C2	J13-N*	A 132L	IG CDU ERROR SIGNAL RETURN		69
J26-C2	TB1-2C	A 133L	IG CDU ERROR SIGNAL RETURN		69
J26-D3	J13-Y*	A 137R	MG CDU 1/2 X ERROR SIGNAL		281
J26-C4	J13-V*	A 138L	MG CDU ERROR SIGNAL RETURN		70
J26-C4	TB1-3C	A 139L	MG CDU ERROR SIGNAL RETURN		70
J26-C5	J13-JJ	A 144R	OG CDU 1/2 X ERROR SIGNAL		288
J26-C6	TB1-49A	A 147L	OG CDU ERROR SIGNAL RETURN		286
J26-C7	J1-D	A 174R	COS AOG 16 X S1		13
J26-C8	J1-E	A 169R	SIN AOG 16 X S2		14
J26-C9	J1-F	A 169L	SIN AOG 16 X S4		15
J26-C9	J11-CC	A 169R	SIN AOG 16 X S4		15
J26-F1	J14-NN	A 13CL	IG CDU ERROR SIGNAL RETURN		319
J26-F2	J14-R*	A 153W	IG CDU 1 X RSVR LOAD		306
J26-F3	J13-Z*	A 137L	MG CDU ERROR SIGNAL RETURN		282
J26-F4	J14-C*	A 154W	MG CDU 1 X RSVR LOAD		305

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-F5	J13-KK	A 144L	OG CDU ERROR SIGNAL RETURN		289
J26-F6	J14-S*	A 155W	OG CDU 1 X RSVR LOAD		307
J26-F7	J1-C	A 174L	COS AOG 16 X S3		12
J26-F7	J11-AA	A 175R	COS AOG 16 X S3		12
J26-F8	J11-BB	A 175L	COS AOG 16 X TO CDU		218
J26-F9	J11-CC	A 169L	SIN AOG 16 X TO CDU		219
J26-G1	J1-W	A 170L	COS AIG 16 X S3		28
J26-G1	J11-F*	A 171R	COS AIG 16 X S3		28
J26-G2	J11-G*	A 171L	COS AIG 16 X TO CDU		210
J26-G3	J1-G	A 172L	COS AMG 16 X S3		16
J26-G3	J11-S*	A 173R	COS AMG 16 X S3		16
J26-G4	J11-T*	A 173L	COS AMG 16 X TO CDU		214
J26-G5			SPARE		
J26-G6			SPARE		
J26-H1	J1-X	A 170R	COS AIG 16 X S1		29
J26-H2			SPARE		
J26-H3	J1-H	A 172R	COS AMG 16 X S1		17
J26-H4			SPARE		
J26-H5			SPARE		
J26-H6			SPARE		
J26-K1			SPARE		
J26-K2			SPARE		
J26-K3			SPARE		
J26-K4			SPARE		
J26-K5			SPARE		
J26-K6			SPARE		
J26-L1	J25-H4	A 35	FINE ALIGN RELAY CONTROL		313
J26-L2	J25-S1	A 66	ZERO ENCODER RELAY CONTROL		316
J26-L3	TB1-52C	A 181L	COMPUTER 800 PPS SYNC RETURN		7
J26-L4	TB1-52A	A 181R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
J26-L5			SPARE		
J26-L6			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-M1	J14-EE	A 177	ENTRY RELAY CONTROL		315
J26-M2	J22-H5	A 136W	IG CDU FAILURE INDICATION		438
J26-M3	J22-H6	A 143W	MG CDU FAILURE INDICATION		439
J26-M4	TB1-52B	A 181Y	COMPUTER 800 PPS IN PHASE SYNC		151
J26-M5			SPARE		
J26-M6			SPARE		
J26-N1	J12-LL	A 159R	OG CDU MDA OUTPUT		256
J26-N2	J12-NN	A 159Y	OG CDU MDA OUTPUT		257
J26-N3	J22-G6	A 152W	OG CDU FAILURE INDICATION		437
J26-N4	J27-L6	A 61	STRUCTURE GROUND		7
J26-N4	TB3-2S	A 573	STRUCTURE GRD		7
J26-N5	TB1-55D	A 194L	800 CPS 28V 1 PCT LC OPTICS		346
J26-N5	TB7-1D	A 195L	800 CPS 28V 1 PCT LC OPTICS		346
J26-N6	TB2-3C	A 208L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J26-P1	J11-P*	A 157Y	IG CDU MDA OUTPUT		213
J26-P2	TB1-51A	A 163	0 VDC IMU		7
J26-P3	J12-KK	A 158Y	MG CDU MDA OUTPUT		255
J26-P4	J1-B	A 82L	IMU RSVR EXC 800 CPS 28V 1 PCT LO IMU		11
J26-P5	TB1-53D	A 198R	800 CPS 28V 1 PCT HI OPTICS		345
J26-P5	TB1-54D	A 199R	800 CPS 28V 1 PCT HI OPTICS		345
J26-P6	TB2-2C	A 208R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J26-R1	J11-J*	A 157R	IG CDU MDA OUTPUT		212
J26-R2	TB1-51D	A 160	0 VDC IMU		7
J26-R3	J12-HH	A 158R	MG CDU MDA OUTPUT		254
J26-R4	J12-K*	A 201W	ZEROING RSVR 800 CPS		238
J26-R5	TB3-17J	A 433	0 VDC CPTICS		7
J26-R6	TB3-17K	A 434	0 VDC CPTICS		7
J26-S1	J14-M*	A 178	+ 28 VCC IMU FOR IG MDA		294
J26-S2	TB2-43B	A 115	+ 28 VCC IMU		39
J26-S3	TB1-16C	A 81L	800 CPS 28V 1 PCT LC IMU		231
J26-S4	TB1-15C	A 81R	800 CPS 28V 1 PCT HI IMU		10
J26-S4	J1-A	A 82R	800 CPS 28V 1 PCT HI IMU		10

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J26	105 SOCKET CONNECTOR 1902080-007				
J26-S5	TB2-47B	A 430	+ 28 VCC CPTICS		370
J26-S6	TB2-47C	A 42P	+ 28 VCC CPTICS		341
J26-T1	J14-N	A 179	+ 28 VCC IMU FOR MG MDA		295
J26-T2	J14-P	A 180	+ 28 VCC IMU FOR CG MDA		296
J26-T3			SPARE		
J26-T4			SPARE		
J26-T5			SPARE		
J26-T6			SPARE		
	J27	105 SOCKET CONNECTOR 1902080-008			
J27-A1	J21-C3	A 151L	OG CDU ATTITUDE STEERING ERROR		426
J27-A2	TB1-48D	A 146R	CG CDU 16 X ERROR SIGNAL		285
J27-A3	J11-h	A 211R	ROLL ERROR BODY OFFSET AXIS HI		206
J27-A4	J11-P	A 209R	ROLL ERROR BODY AXIS HI		200
J27-A6	J19-C*	A 697R	TRUN CDU ENCODER PHASE 1		412
J27-A7	SHLD A697	A 697B	TRUNNION CDU ENCODER COMMON		414
J27-A7	J19-F*	A 697Y	TRUN CDU ENCODER COMMON		414
J27-A8	J19-E*	A 697L	TRUN CDU ENCODER PHASE 2		413
J27-A9	J27-B9	A 7C6	TRUN ENCODER SCALE SELECT		457
J27-B1	J21-B3	A 151R	CG CDU ERROR SIGNAL RETURN		286
J27-B2	TB1-49B	A 146L	OG CDU ERROR SIGNAL RETURN		286
J27-B3	J11-X	A 211L	ROLL ERROR BODY OFFSET AXIS LO		207
J27-B4	J11-N	A 209L	ROLL ERROR BODY AXIS LO		201
J27-B5	J2-L	A 711L	IRIG TEMP CONT SENSOR RETURN		44
J27-B6	J2-M	A 711R	IRIG TEMP CONT SENSOR HI		45
J27-B7	J12-G	A 749	IMU TEMP CONTROL - 5 DEG GAIN CHECK		223
J27-B8	J12-D	A 712	IRIG ZERO DEVIATION CHECK		220
J27-B9	J27-A9	A 7C6	TRUN ENCODER SCALE SELECT		457
J27-C1	J11-T	A 212L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J27	105 SOCKET CONNECTOR 1902080-008				
J27-C1	J3-P	A 213L	PITCH ERROR BODY + BODY OFFSET AXIS LO		74
J27-C2	J3-R	A 213R	PITCH - YAW RSVR S4		75
J27-C3	J11-L	A 214R	YAW ERROR BODY OFFSET AXIS HI		205
J27-C4	J11-P	A 210R	YAW ERROR BODY AXIS HI		202
J27-C5	J2-A*	A 708L	IRIG TEMP IND SENSOR RETURN		54
J27-C6	J2-Z	A 708R	IRIG TEMP IND SENSOR HI		53
J27-C7	J5-AA	A 709	IRIG TEMP BRIDGE AMPL PIN 6		133
J27-C8	J13-W	A 710	IRIG TEMP GAIN SWITCH NC		270
J27-C9	J18-R*	A 696R	SHAFT CDU ENCODER PHASE 1		393
J27-C1	J11-S	A 212R	PITCH ERROR BODY + BODY OFFSET AXIS HI		204
J27-C2	J3-N	A 215R	PITCH - YAW RSVR S3		73
J27-C3	J11-V	A 214L	YAW ERROR BODY OFFSET AXIS LO		72
J27-C3	J3-M	A 215L	YAW ERROR BODY OFFSET AXIS LO		72
J27-C4	J11-R	A 210L	YAW ERROR BODY AXIS LO		203
J27-D5	J5-A	A 715	ACCEL TEMP IND SENSOR RETURN		110
J27-D6	J12-F	A 748	IMU TEMP CONTROL + 5 DEG GAIN CHECK		222
J27-C7	J12-E	A 713	ACCEL ZERO DEVIATION CHECK		221
J27-C8			SPARE		
J27-C9	SHLD A696	A 696B	SHAFT CDU ENCODER COMMON		395
J27-C9	J18-T*	A 696Y	SHAFT CDU ENCODER COMMON		395
J27-F1			SPARE		
J27-F2	J12-CC	A 453	TEMP CONTROL SIG LC		7
J27-F2	TB2-11C	A 454	0 VDC IMU		7
J27-F3	J12-CD	A 718	HEATER CURRENT (TELEM)		250
J27-F4	J12-BB	A 717	IRIG TEMP (TELEM)		249
J27-F5	J12-AA	A 716	ACCEL TEMP (TELEM)		248
J27-F6	J12-EE	A 719	BLOWER CURRENT SENSOR (TELEM)		251
J27-F7	J5-BB	A 714	ACCEL BRIDGE AMP PIN 6		134
J27-F8			SPARE		
J27-F9	J18-S*	A 696L	SHAFT CDU ENCODER PHASE 2		394
J27-G1	K1-8	A 728	IMU TEMP ALARM AMP PIN 14		458
J27-G2	K5-3	A 738	IMU TEMP ALARM AMP PIN 15		459

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J27	105 SOCKET CONNECTOR 1902080-008				
J27-G3			SPARE		
J27-G4	TB2-5A	A 698R	SHAFT ENCODER + DELTA THETA OUTPUT		162
J27-G5			SPARE		
J27-G6	TB2-7A	A 702R	TRUN ENCODER + DELTA THETA OUTPUT		157
J27-H1	K1-4	A 739	IMU TEMP ALARM BIAS RESISTOR		460
J27-H2	K1-7	A 736	IMU TEMP ALARM AMP PIN 5		461
J27-H3			SPARE		
J27-H4	TB2-6A	A 698Y	SHAFT ENCODER DELTA THETA OUTPUT COM		160
J27-H5			SPARE		
J27-H6	TB2-6C	A 702Y	TRUN ENCODER DELTA THETA OUTPUT COM		158
J27-K1			SPARE		
J27-K2			SPARE		
J27-K3			SPARE		
J27-K4	TB2-5C	A 698L	SHAFT ENCODER - DELTA THETA OUTPUT		159
J27-K5			SPARE		
J27-K6	TB2-7C	A 702L	TRUN ENCODER - DELTA THETA OUTPUT		161
J27-L1	K2-4	A 726	IMU TEMP CONT K2 PIN 6		462
J27-L2			SPARE		
J27-L3	J11-L	A 752	IMU TEMP LIGHT (MAIN PANEL)		199
J27-L4	TB2-10A	A 767Y	+ 32, +120 VDC RET PIP		452
J27-L5	TB2-9C	A 767L	+ 120 VDC PIP		453
J27-L6	J26-N4	A 61	STRUCTURE GROUND		7
J27-L6	J28-P4	A 62	STRUCTURE GROUND		7
J27-P1	K5-4	A 727	0 VDC IMU		463
J27-P2	J2-K	A 747	IMU TEMP SENSOR COMMON		43
J27-P3	J22-F3	A 75C	0 VDC SPACECRAFT		235
J27-P4	J2-X	A 707R	IMU EMERG HEATER HI		51
J27-P5	K2-3	A 732	IMU TEMP CONTROL K1 PIN 3		464
J27-P6	K3-7	A 735	IMU TEMP CONTROL AMP PIN 5		465
J27-N1	J2-W	A 746L	IMU CONTROL HEATER LO		50
J27-N2	TB2-11A	A 456R	3200 CPS 20 V HI		428
J27-N3	TB1-21A	A 763L	25.6 KC LO OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J27	105 SOCKET CONNECTOR 1902080-008				
J27-N4	J2-R	A 707L	EMERG HTR LC - OPER AND STBY		48
J27-N5	K4-8	A 73C	IMU TEMP CONTROL K2 PIN 5		466
J27-N6	K2-8	A 731	IMU HEATER CURRENT AMP PIN 5		467
J27-P1	J2-V	A 746R	IMU CONTROL HEATER HI		49
J27-P2	TB2-11D	A 456L	3200 CPS 20 V CT		7
J27-P3	TB1-20A	A 763R	25.6 KC HI OPTICS		344
J27-P4	TB2-10D	A 755L	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
J27-P5	J12-P*	A 757	IMU TEMP CONTROL FAIL LIGHT HI		240
J27-P6	J14-S	A 758	CONDITION LAMP TEST		297
J27-R1	J21-S3	A 759	+ 28VDC STBY TO 3200 CPS PWR SUPPLY		429
J27-R2	TB2-11B	A 456Y	3200 CPS 20 V LC		427
J27-R3	TB1-26B	A 647N	COMPUTER 12.8 KPPS SYNC		188
J27-R4	TB2-8A	A 75*R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
J27-R5	TB2-5AB	A 595	+ 28 VDC MDV		124
J27-R6	TB3-17L	A 464	0 VDC OPTICS		7
J27-S1	J27-S2	A 458	0 VDC IMU		7
J27-S1	TB2-12B	A 459	0 VDC IMU		7
J27-S2	J27-S1	A 458	0 VDC IMU		7
J27-S3	J27-S4	A 460	0 VDC IMU		7
J27-S3	TB2-12D	A 461	0 VDC IMU		7
J27-S4	J27-S3	A 460	0 VDC IMU		7
J27-S5			SPARE		
J27-S6	TB3-17M	A 465	0 VDC OPTICS		7
J27-T1	J27-T2	A 496	+ 28 VDC STBY		241
J27-T1	TB2-48A	A 497	+ 28 VDC STBY		241
J27-T2	J27-T1	A 496	+ 28 VDC STBY		241
J27-T3	J14-PP	A 760	+ 28VDC IMU		320
J27-T3	J27-T4	A 761	+ 28VDC IMU		320
J27-T4	J27-T3	A 761	+ 28VDC IMU		320
J27-T5	TB2-9A	A 767R	+ 32 VDC PIP		454
J27-T6	TB2-46A	A 425	+ 28 VDC OPTICS		468

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J28	105 SOCKET CONNECTOR 1902080-009				
J28-A1	J32-R	A 770R	SXT SHAFT 1/2 X RSVR S3		384
J28-A1	J18-F*	A 771R	SXT SHAFT 1/2 X RSVR S3		384
J28-A2	TB2-14B	A 774R	SXT SHAFT 16 X RSVR S4		388
J28-A3	TB2-15A	A 774L	SXT SHAFT 16 X RSVR S2		387
J28-A4			SPARE		
J28-A5	J31-B*	A 805E	SCT SHAFT TACH HI		469
J28-A6			SPARE		
J28-A7	J32-H	A 775E	SXT SHAFT TACH HI		470
J28-A8			SPARE		
J28-A9	J32-B*	A 796E	SXT TRUN TACH HI		471
J28-B1	J32-P	A 770L	SXT SHAFT 1/2 X RSVR S1		383
J28-B1	J18-E*	A 771L	SXT SHAFT 1/2 X RSVR S1		383
J28-B2			SPARE		
J28-B3			SPARE		
J28-B4			SPARE		
J28-B5	SHLD A805	A 805B	SCT SHAFT TACH LC		472
J28-B6			SPARE		
J28-B7	SHLD A775	A 775B	SXT SHAFT TACH LC		473
J28-B8			SPARE		
J28-B9	SHLD A796	A 796B	SXT TRUN TACH LC		474
J28-C1	TB2-20B	A 795R	SXT TRUN 64 X RSVR S2		417
J28-C2	TB2-21A	A 795L	SXT TRUN 64 X RSVR S4		418
J28-C3			SPARE		
J28-C4			SPARE		
J28-C5	J31-E*	A 801L	SCT SHAFT 1 X RSVR S2		475
J28-C6			SPARE		
J28-C7	TB2-24A	A 388R	TRACKER X DRIVE BUFFERED HI		329
J28-C8	TB2-24C	A 391R	TRACKER Y DRIVE BUFFERED HI		330
J28-C9	TB2-27A	A 394R	TRACKER PREAMP OUTPUT BUFF HI		327
J28-D1	J32-1*	A 809R	TRUN CDU 1/4 X RSVR S4		403
J28-D1	J19-T	A 809R	TRUN CDU 1/4 X RSVR S4		403
J28-D2			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J28	105 SOCKET CONNECTOR 1902080-009				
J28-C3	J31-K	A 806R	SCT TRUN 1 X RSVR P1		476
J28-C4	J31-J	A 806L	SCT TRUN 1 X RSVR P3		477
J28-C5	SHLD A801	A 801B	SCT SHAFT 1X RSVR S4		478
J28-D5	J31-E*	A 801R	SCT SHAFT 1 X RSVR S4		478
J28-D6			SPARE		
J28-D7	TB2-26A	A 388L	TRACKER X DRIVE BUFFERED LO		7
J28-D8	TB2-26B	A 391L	TRACKER Y DRIVE BUFFERED LO		7
J28-D9	TB2-26C	A 394L	TRACKER PRE AMP OUTPUT BUFF LO		7
J28-F1	J32-J*	A 8C8L	TRUN CDU 1/4 X RSVR S2		402
J28-F1	J19-S	A 8C9L	TRUN CDU 1/4 X RSVR S2		402
J28-F2	J32-K*	A 810R	TRUN CDU 1/4 X RSVR S1		401
J28-F2	J19-R	A 811R	TRUN CDU 1/4 X RSVR S1		401
J28-F3	J32-P*	A 810L	TRUN CDU 1/4 X RSVR S3		400
J28-F3	J19-P	A 811L	TRUN CDU 1/4 X RSVR S3		400
J28-F4	J31-G	A 807R	SCT TRUN 1 X RSVR P2		479
J28-F5	J31-H	A 807L	SCT TRUN 1 X RSVR P4		480
J28-F6			SPARE		
J28-F7			SPARE		
J28-F8			SPARE		
J28-F9			SPARE		
J28-G1	J29-G6	A 776R	SXT SHAFT MCA INPUT HI		481
J28-G2	J29-G5	A 776L	SXT SHAFT MCA INPUT LC		482
J28-G3	TB2-29A	A 4C2R	SHAFT + DELTA THETA CMC		141
J28-G4	TB2-5B	A 699R	SHAFT ENCCDER + DELTA THETA OUTPUT		162
J28-G5	TB2-28A	A 399R	TRUN + DELTA THETA CMD		144
J28-G6	TB2-7B	A 7C3R	TRUN ENCCDER + DELTA THETA OUTPUT		157
J28-H1	J29-H6	A 797L	SXT TRUN MCA INPUT LO		483
J28-H2			SPARE		
J28-H3	TB2-29C	A 4C2L	SHAFT DELTA THETA CMD COMMON		142
J28-H4	TB2-6B	A 699Y	SHAFT ENCCDER DELTA THETA OUTPUT COM		160
J28-H5	TB2-28C	A 399L	TRUN DELTA THETA CMC COMMON		145
J28-H6	TB2-6D	A 7C3Y	TRUN ENCCDER DELTA THETA OUTPUT COMM		158

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J28	105 SOCKET CONNECTOR 1902080-009				
J28-K1	J29-K6	A 797R	SXT TRUN MCA INPUT HI		484
J28-K2			SPARE		
J28-K3	TE2-29B	A 4C2Y	SHAFT - DELTA THETA CMC		143
J28-K4	TB2-5D	A 699L	SHAFT ENCCDER - DELTA THETA OUTPUT		159
J28-K5	TB2-28B	A 399Y	TRUN - DELTA THETA CMC		146
J28-K6	TB2-7C	A 7C3L	TRUN ENCCDER - DELTA THETA OUTPUT		161
J28-L1	J28-L2	A 403	0 VDC OPTICS		7
J28-L2	J28-L1	A 403	0 VDC OPTICS		7
J28-L2	J28-L3	A 404	0 VDC OPTICS		7
J28-L3	J28-L2	A 404	0 VDC OPTICS		7
J28-L3	J28-L4	A 405	0 VDC OPTICS		7
J28-L4	J28-L3	A 405	0 VDC OPTICS		7
J28-L4	J28-L5	A 406	0 VDC OPTICS		7
J28-L5	J28-L4	A 406	0 VDC OPTICS		7
J28-L5	J28-L6	A 407	0 VDC OPTICS		7
J28-L6	J28-L5	A 407	0 VDC OPTICS		7
J28-L6	TE2-30A	A 409	0 VDC OPTICS		7
J28-M1	TB2-18A	A 785	SXT TRUN MCA INPUT BUFFERED		337
J28-M2	TB2-18B	A 786	SXT TRUN TACH FDBK BUFFERED		336
J28-M3	TB2-17A	A 780	SXT SHAFT MCA INPUT BUFFERED		324
J28-M4	TB2-17B	A 781	SXT SHAFT TACH FDBK BUFFERED		326
J28-M5	TB2-19A	A 789	SCT SHAFT 1 X ERRCR SIG BUFFERED		334
J28-M6	TB2-19B	A 790	SCT SHAFT TACH FDBK BUFFERED		323
J28-N1			SPARE		
J28-N2			SPARE		
J28-N3			SPARE		
J28-N4			SPARE		
J28-N5			SPARE		
J28-N6			SPARE		
J28-P1	J17-S	A 812R	ZERO OPTICS MODE CMC		354
J28-P2	J17-R*	A 813	0 CFG OFFSET RELAY CMD		365
J28-P3	J17-R	A 812L	COMPUTER RELAY CMC		353

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J28	105 SOCKET CONNECTOR 1902080-009				
J28-P4	J27-L6	A 62	STRUCTURE GROUND		7
J28-P4	J29-R4	A 63	STRUCTURE GROUND		7
J28-P5			SPARE		
J28-P6			SPARE		
J28-R1	J17-P	A 216	TRACKER MODE RELAY CMD		352
J28-R1	J29-R6	A 217	TRACKER MODE RELAY CMD		352
J28-R2	J17-S*	A 218	25 DEG OFFSET RELAY CMD		366
J28-R3			SPARE		
J28-R4	TB2-30C	A 414	0 VDC OPTICS		7
J28-R5	TB2-31A	A 415	0 VDC OPTICS		7
J28-R6	TB2-31C	A 416	0 VDC OPTICS		7
J28-S1	TB1-55C	A 193L	800 CPS 28V 1 PCT LC OPTICS		346
J28-S2			SPARE		
J28-S3	TB3-17D	A 417	BUFFERED 0 VDC		7
J28-S4	TB2-23A	A 8C2R	SCT SHAFT MCT PHASE 2		485
J28-S5	TB2-16A	A 77MR	SXT SHAFT MCT PHASE 2		486
J28-S6	TB2-22A	A 798R	SXT TRUN MCT PHASE 2		487
J28-T1	TB1-54C	A 193R	800 CPS 28V 1 PCT HI OPTICS		345
J28-T2	TB2-46A	A 423	+ 28 VDC OPTICS		468
J28-T3	J17-R8	A 219	+ 28 VDC OPTICS DAC PWR		369
J28-T4	TB2-23D	A 8C2L	SCT SHAFT MCT PHASE 1		488
J28-T5	TB2-16D	A 77BL	SXT SHAFT MCT PHASE 1		489
J28-T6	TB2-22D	A 798L	SXT TRUN MCT PHASE 1		490
	J29 105 SOCKET CONNECTOR 1902080-010				
J29-A1	J31-R	A 22CE	SCT TRUN TACH HI		491
J29-A2			SPARE		
J29-A3			SPARE		
J29-A4			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-A5			SPARE		
J29-A6	J19-L*	A 227	TRUN CDU TACH HI		421
J29-A7			SPARE		
J29-A8			SPARE		
J29-A9	J18-L*	A 236E	SHAFT CDU TACH HI		396
J29-B1	SHLD A220	A 22CB	SCT TRUNN TACH LO		492
J29-B2			SPARE		
J29-B3			SPARE		
J29-B4	SHLD A226	A 226B	TRUN CDU 16 X RSVR S3		419
J29-B4	J19-R*	A 226L	TRUN CDU 16 X RSVR S3		419
J29-B5	J19-S*	A 226R	TRUN CDU 16 X RSVR S2		420
J29-B6	SHLD A227	A 227B	TRUN CDU TACH LC		422
J29-B7	SHLD A235	A 235B	SHAFT CDU 16X RSVR S3		369
J29-B7	J18-K*	A 235R	SHAFT CDU 16 X RSVR S3		389
J29-B8	J18-P*	A 235L	SHAFT CDU 16 X RSVR S2		390
J29-B9	SHLC A236	A 236B	SHAFT CDU TACH LC		397
J29-C1	SHLC A221	A 221B	SCT TRUN 1 X RSVR S2		493
J29-C1	J31-L	A 221R	SCT TRUN 1 X RSVR S2		493
J29-C2	J31-M	A 221L	SCT TRUN 1 X RSVR S4		494
J29-C3			SPARE		
J29-C4			SPARE		
J29-C5	J19-M	A 222R	TRUN CDU 1/4 X RSVR P2		398
J29-C6	J19-N	A 222L	TRUN CDU 1/4 X RSVR P3		399
J29-C7			SPARE		
J29-C8	J18-B*	A 229R	SHAFT CDU 1/2 X RSVR P1		380
J29-C9	J18-A*	A 229L	SHAFT CDU 1/2 X RSVR P3		379
J29-C1			SPARE		
J29-C2	J17-G*	A 469L	SCT TRUN TRACKER MODE INPUT LC		362
J29-C3	J17-F*	A 469R	SCT TRUN TRACKER MODE INPUT HI		361
J29-C4			SPARE		
J29-C5			SPARE		
J29-C6			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-E7	J17-C*	A 237L	SHAFT HAND CONTROLLER OUTPUT LO		360
J29-E8	J17-F*	A 237R	SHAFT HAND CONTROLLER OUTPUT HI		359
J29-E9			SPARE		
J29-F1			SPARE		
J29-F2			SPARE		
J29-F3			SPARE		
J29-F4			SPARE		
J29-F5			SPARE		
J29-F6			SPARE		
J29-F7			SPARE		
J29-F8	J17-L	A 228L	TRUN HAND CONTROLLER OUTPUT LO		357
J29-F9	J17-V	A 228R	TRUN HAND CONTROLLER OUTPUT HI		356
J29-G1	J19-Y	A 223E	TRUN CDU 1/2 X RSVR S1		408
J29-G2			SPARE		
J29-G3	J18-R	A 233R	SHAFT CDU 1 X RSVR P4		375
J29-G4	J18-P	A 233L	SHAFT CDU 1 X RSVR P2		374
J29-G4	J30-C9	A 234R	Y TRACKER OUTPUT LO		374
J29-G5	J28-G2	A 776L	SXT SHAFT MEA INPUT LO		482
J29-G6	J28-G1	A 776R	SXT SHAFT MEA INPUT HI		481
J29-H1	SHLD A223	A 223R	TRUN CDU 1/2 X RSVR S3		409
J29-H2			SPARE		
J29-H3			SPARE		
J29-H4	J30-C9	A 234L	Y TRACKER OUTPUT HI		495
J29-H5	J30-C8	A 231L	X TRACKER OUTPUT HI		496
J29-H6	J28-H1	A 797L	SXT TRUNN MEA INPUT LO		483
J29-K1	J19-L	A 224R	TRUN CDU 1/2 X RSVR S2		406
J29-K2	J19-X	A 224L	TRUN CDU 1/2 X RSVR S4		407
J29-K3			SPARE		
J29-K4	J18-N	A 230R	SHAFT CDU 1 X RSVR P1		373
J29-K5	J18-M	A 230L	SHAFT CDU 1 X RSVR P3		372
J29-K5	J30-C8	A 231R	X TRACKER OUTPUT LO		372
J29-K6	J28-K1	A 797R	SXT TRUN MEA INPUT HI		484

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-L1	J30-R7	A 475	0 VDC OPTICS		7
J29-L1	J29-L2	A 476	0 VDC OPTICS		7
J29-L2	J29-L1	A 476	0 VDC OPTICS		7
J29-L2	J29-L3	A 477	0 VDC OPTICS		7
J29-L3	J29-L2	A 477	0 VDC OPTICS		7
J29-L3	J29-L4	A 478	0 VDC OPTICS		7
J29-L4	J29-L3	A 478	0 VDC OPTICS		7
J29-L4	J29-L5	A 479	0 VDC OPTICS		7
J29-L5	J29-L4	A 479	0 VDC OPTICS		7
J29-L5	J29-L6	A 480	0 VDC OPTICS		7
J29-L6	J29-L5	A 480	0 VDC OPTICS		7
J29-L6	TB2-35B	A 481	0 VDC OPTICS		7
J29-M1	TB2-32A	A 239	CDU TRUN 16 X RSVR ERRCR SIG BUFF		335
J29-M2	TB2-32B	A 240	TRUN CDU TACH FDBK BUFFERED		339
J29-M3	TB2-32C	A 241	SHAFT CDU 16 X ERRCR SIG BUFF		325
J29-M4	TB2-34A	A 242	SHAFT CDU TACH FDBK SIG BUFF		333
J29-M5	TB2-34B	A 243	SCT TRUN 1 X ERRCR SIG BUFF		340
J29-M6	TB2-34C	A 244	SCT TRUN TACH FDBK BUFF		338
J29-N1	TB2-38D	A 832	~~SPARE~~ TRUN MOT PHASE 1		513
J29-N2	TB2-39D	A 834	~~SPARE~~ SHAFT CDU MOT PHASE 1		514
J29-N3			SPARE		
J29-N4			SPARE		
J29-N5			SPARE		
J29-N6			SPARE		
J29-P1	J19-V	A 225L	TRUN CDU 1/2 X RSVR P3		405
J29-P2	J19-L	A 225R	TRUN CDU 1/2 X RSVR P2		404
J29-P3	J18-L	A 232R	SHAFT CDU 1 X RSVR S2		378
J29-P4	J18-S	A 232L	SHAFT CDU 1 X RSVR S3		376
J29-P5	J18-T	A 232Y	SHAFT CDU 1 X RSVR S1		377
J29-P6	J17-L*	A 238	RESOLVED MODE RELAY CMD		367
J29-R1	TB2-36B	A 485	0 VDC OPTICS		7
J29-R2	TB2-36C	A 488	0 VDC OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J29	105 SOCKET CONNECTOR 1902080-010				
J29-R3	TB2-35D	A 491	0 VDC OPTICS		7
J29-R4	J28-P4	A 63	STRUCTURE GROUND		7
J29-R4	J30-P4	A 64	STRUCTURE GROUND		7
J29-R5			SPARE		
J29-R6	J28-R1	A 217	TRACKER MODE RELAY CMD		352
J29-S1	TB2-38C	A 471L	TRUN CDU MOT PHASE 1		410
J29-S2	TB2-39C	A 607L	SHAFT CDU MOT PHASE 1		391
J29-S3	TB2-37C	A 467L	SCT TRUN MOT PHASE 1		497
J29-S4	TB3-17T	A 494	0 VDC OPTICS		7
J29-S5	TB3-17V	A 495	0 VDC OPTICS		7
J29-S6	TB1-55B	A 194L	800 CPS 28V 1 PCT LC OPTICS		346
J29-T1	TB2-38A	A 471R	TRUN CDU MOT PHASE 2		411
J29-T2	TB2-39A	A 607R	SHAFT CDU MOT PHASE 2		392
J29-T3	TB2-37A	A 467R	SCT TRUN MOT PHASE 2		498
J29-T4			SPARE		
J29-T5	TB2-46B	A 424	+ 28 VDC OPTICS		468
J29-T6	TB1-54B	A 194R	800 CPS 28V 1 PCT HI OPTICS		345
	J30 105 SOCKET CONNECTOR 1902080-011				
J30-A1			SPARE		
J30-A2			SPARE		
J30-A3			SPARE		
J30-A4	J12-G*	A 251R	IMU PRESSURE MONITOR HI		57
J30-A4	J2-D*	A 252R	IMU PRESSURE MONITOR HI		57
J30-A5			SPARE		55
J30-A6	J2-B*	A 253R	PRESSURE SENSOR + 28 VDC HI		499
J30-A7	TB2-55A	A 623R	STAR PRESENCE INPUT HI		150
J30-A8	TB2-55C	A 623L	STAR PRESENCE INPUT LO		500
J30-A9	J32-KK	A 254E	PHOTOMETER SIGNAL HI		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-B1			SPARE		
J30-B2			SPARE		
J30-B3			SPARE		
J30-B4	J12-H*	A 251L	IMU PRESSURE MONITOR LO		58
J30-B4	J2-E*	A 252L	IMU PRESSURE MONITOR LO		58
J30-B5			SPARE		
J30-B6	J2-C*	A 253L	PRESSURE SENSOR + 28 VDC LO		56
J30-B7	J29-L1	A 475	0 VDC OPTICS		7
J30-B7	J16-P	A 255L	0 VDC OPTICS		7
J30-B8	J16-N	A 255R	PHOTOMETER PREAMP OUTPUT BUFF HI		328
J30-B9	SHLD A254	A 254B	PHOTOMETER SIG LO		501
J30-C1			SPARE		
J30-C2			SPARE		
J30-C3	T85-19	A 624L	STAR PRESENCE LO		502
J30-C4	T85-20	A 624R	STAR PRESENCE HI		503
J30-C5			SPARE		
J30-C6	J31-R*	A 256R	TRACKER X ERROR INPUT HI		504
J30-C7	J31-S*	A 256L	TRACKER X ERROR INPUT LO		505
J30-C8	J29-K5	A 231L	X TRACKER OUTPUT HI		496
J30-C9	J29-K4	A 234L	Y TRACKER OUTPUT HI		495
J30-C1	J12-FF	A 258R	+ 2.5 VDC CONDITIONING HI		252
J30-C2			SPARE		
J30-D3	SHLD A263	A 263B	COMPUTER 102.4 KPPS SYNC RET		164
J30-D4			SPARE		
J30-D5			SPARE		
J30-D6	J31-K*	A 259R	TRACKER Y ERROR INPUT HI		506
J30-C7	J31-J*	A 259L	TRACKER Y ERROR INPUT LO		507
J30-D8	J29-K5	A 231R	X TRACKER OUTPUT LC		372
J30-C9	J29-G4	A 234R	Y TRACKER OUTPUT LC		374
J30-F1	J12-CC	A 258L	+ 2.5 VDC CONDITIONING LO		253
J30-F2	J17-MM	A 260	AUTOMATIC MARK CMD		371
J30-F3	TB1-22A	A 263E	102.4 KPPS INPUT HI		163

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-F4			SPARE		
J30-F5			SPARE		
J30-F6	J17-J*	A 257R	PHOTOMETER MARK REJECT HI		363
J30-F7	J17-K*	A 257L	PHOTOMETER MARK REJECT LO		364
J30-F8	TB1-16C	A 84L	800 CPS 28V 1 PCT LO IMU		231
J30-F9	TB1-15C	A 84R	800 CPS 28V 1 PCT HI IMU		10
J30-G1	J12-J	A 264L	0 VDC CONDITIONING		225
J30-G2	J12-H	A 264R	+ 20 VDC CONDITIONING		224
J30-G3			SPARE		
J30-G4	J30-G5	A 200	800 CPS 28V 1 PCT LO OPTICS		346
J30-G5	TB1-55B	A 195L	800 CPS 28V 1 PCT LO OPTICS		346
J30-G5	J30-C4	A 200	800 CPS 28V 1 PCT LO OPTICS		345
J30-G6	TB1-54B	A 195R	800 CPS 28V 1 PCT HI OPTICS		7
J30-H1	TB3-18Q	A 544	0 VDC IMU		309
J30-H2	J15-M	A 501	+ 28 VDC AGC BUS A		309
J30-H2	J15-M	A 507	+ 28 VDC AGC BUS A		310
J30-H3	J15-P	A 504	+ 28 VDC AGC BUS B		310
J30-H3	J15-P	A 505	+ 28 VDC AGC BUS B		358
J30-H4	J17-Z	A 273E	800 CPS 28V 1 PCT HI OPTICS TRK PWR		343
J30-H5	TB2-3D	A 205L	800 CPS 28V 5 PCT L-90 LO OPTICS		342
J30-H6	TB2-2D	A 205R	800 CPS 28V 5 PCT L-90 HI OPTICS		7
J30-K1	TB3-18X	A 542	0 VDC IMU		7
J30-K2	TB3-18S	A 543	0 VDC IMU		
J30-K3			SPARE		
J30-K4			SPARE		
J30-K5	J30-L5	A 266	800 CPS 28V 5 PCT L-90 DEG LO IMU		227
J30-K5	TB2-44D	A 267L	800 CPS 28V 5 PCT L-90 DEG LO IMU		227
J30-K6	J30-L6	A 265	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J30-L1	TB2-43B	A 89	+28 VDC IMU		39
J30-L2	TB2-43C	A 90	+28 VDC IMU		39
J30-L3			SPARE		
J30-L4			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-L5	J30-K5	A 266	800 CPS 28V 5 PCT L-90 DEG LO IMU		227
J30-L6	J30-K6	A 265	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J30-L6	TB2-44B	A 267R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
J30-M1	TB2-41A	A 85	+ 28 VDC IMU		258
J30-M2	TB2-41B	A 86	+ 28 VDC IMU		258
J30-M3	J15-N	A 269L	400 CPS 115 V LO		322
J30-M4	J29-R4	A 64	STRUCTURE GROUND		7
J30-M5	TB2-54B	A 592	+ 28 VDC MCV		124
J30-M6	J22-C4	A 270	+ 28 VDC IMU FOR 800 CPS 5 PCT MOT		436
J30-N1	TB2-41B	A 87	+ 28 VDC IMU		258
J30-N2	TB2-41C	A 88	+ 28 VDC IMU		258
J30-N3	J15-P	A 269R	400 CPS 115 V HI		321
J30-N4	TB2-45A	A 275	+ 28 VDC OPTICS TRK PWR		368
J30-N5	TB2-54C	A 593	+ 28 VDC MCV		124
J30-N6	TB2-46B	A 426	+ 28 VDC OPTICS		468
J30-P1	TB2-50A	A 527	+ 28 VDC IMU BUS A		303
J30-P2	TB2-51A	A 531	+ 28 VDC IMU BUS B		304
J30-P3	TB3-17G	A 570	0 VDC OPTICS		7
J30-P4	TB3-17Z	A 571	0 VDC OPTICS		7
J30-P5	TB2-47A	A 591	+ 28 VDC OPTICS		370
J30-P6	TB2-47C	A 429	+ 28 VDC OPTICS		341
J30-R1	TB2-50B	A 523	+ 28 VDC IMU BUS A		303
J30-R2	TB2-51B	A 532	+ 28 VDC IMU BUS B		304
J30-R3	TB2-48A	A 499	+ 28 VDC STBY		241
J30-R4	TB2-48B	A 500	+ 28 VDC STBY		241
J30-R5	TB2-52A	A 551	+ 28 VDC OPTICS BUS A		423
J30-R6	TB2-53A	A 559	+ 28 VDC OPTICS BUS B		424
J30-S1	TB2-50C	A 524	+ 28 VDC IMU BUS A		303
J30-S2	TB2-51C	A 533	+ 28 VDC IMU BUS B		304
J30-S3	TB2-49B	A 511	+ 28 VDC STBY BUS A		301
J30-S4	TB2-49D	A 516	+ 28 VDC STBY BUS B		302
J30-S5	TB2-52B	A 552	+ 28 VDC OPTICS BUS A		423

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J30	105 SOCKET CONNECTOR 1902080-011				
J30-S6	TB2-53B	A 560	+ 28 VDC OPTICS BUS B		424
J30-T1	TB2-50D	A 528	+ 28 VDC IML BUS A		303
J30-T2	TB2-51D	A 534	+ 28 VDC IML BUS B		304
J30-T3	TB2-49A	A 510	+ 28 VDC STBY BUS A		301
J30-T4	TB2-49C	A 515	+ 28 VDC STBY BUS B		302
J30-T5	TB2-52C	A 553	+ 28 VDC OPTICS BUS A		423
J30-T6	TB2-53C	A 561	+ 28 VDC OPTICS BUS B		424
	J31 61 SOCKET CONNECTOR MS3127E24-61SY				
J31-A			SPARE		
J31-B	TB3-1P	A 583	SHIELD GRD		7
J31-C			SPARE		
J31-D	TB2-37C	A 466Y	SCT TRUN MCT PHASE 1		497
J31-E	TB2-27A	A 466R	SCT TRUN MCT PHASE 2		498
J31-F	TB2-37B	A 466L	0 VDC OPTICS		7
J31-G	J28-F4	A 8C7R	SCT TRUN 1 X RSVR P2		479
J31-H	J28-F5	A 8C7L	SCT TRUN 1 X RSVR P4		480
J31-J	J28-C4	A 8C6L	SCT TRUN 1 X RSVR P3		477
J31-K	J28-C3	A 8C6R	SCT TRUN 1 X RSVR P1		476
J31-L	J29-C1	A 221R	SCT TRUN 1 X RSVR S2		493
J31-M	J29-C2	A 221L	SCT TRUN 1 X RSVR S4		494
J31-N			SPARE		
J31-P	SHLD A221	A 221A	SCT TRUN 1 X RSVR S2		493
J31-R	J29-A1	A 22CE	SCT TRUN TACH HI		491
J31-S	SHLD A220	A 22CA	SCT TRUN TACH LO		492
J31-T	TB2-23C	A 8C4Y	SCT SHAFT MCT PHASE 1		488
J31-U	TB2-23A	A 8C4R	SCT SHAFT MCT PHASE 2		485
J31-V	TB2-23B	A 8C4L	0 VDC OPTICS		7
J31-W	TB3-8C	A 6C5R	SCT SHAFT DRIVE DISABLE		351

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J31	61 SOCKET CONNECTOR MS3127E24-61SY				
J31-X	TB3-8D	A 6C5L	0 VDC OPTICS		7
J31-Y			SPARE		
J31-Z			SPARE		
J31-A*			SPARE		
J31-B*	J28-A5	A 8C5E	SCT SHAFT TACH HI		469
J31-C*	SHLD A805	A 8C5A	SCT SHAFT TACH LO		472
J31-D*	J28-C5	A 8C1L	SCT SHAFT 1 X RSVR S2		475
J31-E*	J28-C5	A 8C1R	SCT SHAFT 1 X RSVR S4		478
J31-F*	SHLD A801	A 8C1A	SCT SHAFT 1 X RSVR S4		478
J31-G*			SPARE		
J31-H*	TB1-53B	A 191R	800 CPS 28V 1 PCT HI OPTICS		345
J31-I*	TB2-1R	A 191L	800 CPS 28V 1 PCT LO OPTICS		346
J31-J*	TB2-2A	A 2C6R	800 CPS 28V 5 PCT L-90 HI OPTICS		342
J31-K*	TB2-3A	A 2C6L	800 CPS 28V 5 PCT L-90 LO OPTICS		343
J31-M*	TB3-10C	A 6C9R	400 CPS VAR ILLUM PWR		347
J31-N*	TB3-11C	A 6C9L	400 CPS 6V LO		348
J31-P*	TB2-24A	A 386R	TRACKER X DRIVE BUFFERED HI		329
J31-Q*	TB2-26A	A 386L	TRACKER X DRIVE BUFFERED LO		7
J31-R*	J30-C6	A 256R	TRACKER X ERROR INPUT HI		504
J31-S*	J30-C7	A 256L	TRACKER X ERROR INPUT LO		505
J31-T*			SPARE		
J31-U*			SPARE		
J31-V*			SPARE		
J31-W*	J30-C6	A 259R	TRACKER Y ERROR INPUT HI		506
J31-X*	J30-C7	A 259L	TRACKER Y ERROR INPUT LO		507
J31-Y*	TB2-24C	A 389R	TRACKER Y DRIVE BUFFERED HI		330
J31-Z*	TB2-26C	A 389L	TRACKER Y DRIVE BUFFERED LO		7
J31-AA*	TB2-27A	A 392R	TRACKER PREAMP OUTPUT BUFF HI		327
J31-BB	TB2-25C	A 392L	TRACKER PREAMP OUTPUT BUFF LO		7
J31-CC	TB2-45B	A 276	+ 28 VDC OPTICS TRK PWR		368
J31-DD	TB3-17J	A 565	0 VDC OPTICS		7
J31-EE	TB3-17Y	A 568	0 VDC OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J31	61 SOCKET CONNECTOR MS3127E24-61SY				
J31-FF			SPARE		
J31-GG			SPARE		
J31-HH			SPARE		
J31-JJ			SPARE		
J31-KK			SPARE		
J31-LL			SPARE		
J31-MM	E11	A 663	400 CPS SHIELD GRD		8
J31-NN			SPARE		
J31-PP			SPARE		
	J32 61 SOCKET CONNECTOR MS3127E24-61SZ				
J32-A			SPARE		
J32-B	TB3-1R	A 584	SHIELD GRD		7
J32-C			SPARE		
J32-D	TB2-16D	A 777Y	SXT SHAFT MCT PHASE 1		489
J32-E	TB2-16A	A 777R	SXT SHAFT MCT PHASE 2		486
J32-F	TB2-16B	A 777L	0 VDC CPTICS		7
J32-G			SPARE		
J32-H	J28-A7	A 775E	SXT SHAFT TACH HI		470
J32-J	SHLD A775	A 775A	SXT SHAFT TACH LO		473
J32-K	TB2-14B	A 772R	SXT SHAFT 16 X RSVR S4		388
J32-L	TB2-15A	A 772L	SXT SHAFT 16 X RSVR S2		387
J32-M	J18-H*	A 289R	SXT SHAFT 16 X RSVR S1		386
J32-N	J18-G*	A 289L	SXT SHAFT 16 X RSVR S3		385
J32-P	J28-B1	A 770L	SXT SHAFT 1/2 X RSVR S1		383
J32-R	J28-A1	A 770R	SXT SHAFT 1/2 X RSVR S3		384
J32-S	J18-F*	A 290R	SXT SHAFT 1/2 X RSVR S4		382
J32-T	J18-E*	A 290L	SXT SHAFT 1/2 X RSVR S2		381
J32-U	TB2-22D	A 799Y	SXT TRUN MCT PHASE 1		490

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J32	61 SOCKET CONNECTOR MS3127E24-61SZ				
J32-V	TB2-22A	A 799R	SXT TRUN MCT PHASE 2		487
J32-W	TB2-22B	A 799L	0 VLC CPTICS		7
J32-X	J16-Y	A 822R	STAR SIMULATOR SIG HI		331
J32-Y	J16-Z	A 822L	STAR SIMULATOR SIG LO		332
J32-Z	SHLD A822	A 822A	0 VCC CPTICS		7
J32-Z	TB3-17Y	A 823	0 VCC CPTICS		7
J32-A*	TB3-17N	A 569	0 VCC CPTICS		7
J32-B*	J28-A9	A 796E	SXT TRUN TACH HI		471
J32-C*	SHLD A796	A 796A	SXT TRUN TACH LO		474
J32-D*	TB3-17X	A 566	0 VCC CPTICS		7
J32-E*	TB2-21A	A 793L	SXT TRUN 64 X RSVR S4		418
J32-F*	TB2-20B	A 793R	SXT TRUN 64 X RSVR S2		417
J32-G*	J19-N*	A 251R	SXT TRUN 64 X RSVR S1		416
J32-H*	J19-P*	A 291L	SXT TRUN 64 X RSVR S3		415
J32-I*	J28-C1	A 808R	TRUN CDU 1/4 X RSVR S4		403
J32-J*	J28-F1	A 808L	TRUN CDU 1/4 X RSVR S2		402
J32-K*	J28-F2	A 810R	TRUN CDU 1/4 X RSVR S1		401
J32-M*	J28-F3	A 810L	TRUN CDU 1/4 X RSVR S3		400
J32-N*	TB1-53C	A 193R	800 CPS 28V 1 PCT HI CPTICS		345
J32-P*	TB2-1C	A 192L	800 CPS 28V 1 PCT LO CPTICS		346
J32-Q*	TB2-2B	A 2C7R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
J32-R*	TB2-3B	A 2C7L	800 CPS 28V 5 PCT L-90 LO CPTICS		343
J32-S*	TB3-10D	A 670R	400 CPS VAR ILLUM PWR		347
J32-T*	TB3-11D	A 670L	400 CPS 6 V LO		348
J32-U*			SPARE		
J32-V*			SPARE		
J32-W*	TB2-45B	A 277R	+ 28 VCC CPTICS TRK PWR		368
J32-X*	TB2-45C	A 277L	0 VCC CPTICS		7
J32-Y*	SHLD A793	A 793A	SXT TRUN 64 X RSVR S2		417
J32-Z*	SHLD A772	A 772A	SXT SHAFT 16 X RSVR S4		388
J32-AA	TB3-8A	A 6C3R	SXT SHAFT CRIVE ENABLE		349
J32-BB	TB3-8B	A 6C3L	SXT TRUN CRIVE ENABLE		350

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J32	61 SOCKET CONNECTER MS3127E24-61SZ				
J32-CC	TB3-9B	A 603Y	0 VCC CPTICS		7
J32-CD			SPARE		
J32-EE			SPARE		
J32-FF			SPARE		
J32-GG			SPARE		
J32-HH			SPARE		
J32-JJ			SPARE		
J32-KK	J30-A9	A 254E	PHOTOMETER SIGNAL HI		500
J32-LL	SHLD A254	A 254A	PHOTOMETER SIGNAL LO		501
J32-MM	TB2-55A	A 622R	STAR PRESENCE INPUT HI		499
J32-NN	TB2-55C	A 622L	STAR PRESENCE INPUT LO		150
J32-PP	E11	A 664	400 CPS SHIELD GRD		8
	J41 TEST POINT JACK 1016166-006				
J41	TB5-10	A 634	CDU FAIL		508
	J42 TEST POINT JACK 1016166-006				
J42	SHLD A634	A 634A	CDU FAIL TEST LO		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	J43 TEST POINT JACK 1016166-006				
J43	TB5-16	A 638E	IMU FAIL		509
	J44 TEST POINT JACK 1016166-006				
J44	SHLD A638	A 638A	IMU FAIL TEST LO		7
	J45 TEST POINT JACK 1016166-006				
J45	TB5-4	A 814E	ACCEL FAIL		510
	J46 TEST POINT JACK 1016166-006				
J46	SHLD A814	A 814A	ACCEL FAIL TEST LO		7
	J47 TEST POINT JACK 1016166-006				
J47	TB5-22	A 627E	STAR PRESENCE HI		511

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FRCM	TO	LEAC NO	C I R C U I T F U N C T I O N	PEN NCTE	NET. NO.
	J48		TEST POINT JACK 1016166-006		
J48	SHLD	A627	A 627A STAR PRESENCE TEST LO		150
	K 1		RELAY 1015832-318		
K1-1	J5-GG	A 720R	IMC AUTO CVRC AND PROP MODE CMC HI	4	131
K1-1	K6-1	A 721R	AUTO CVRC PRCP AND BACKUP MCDE CM HI	4	131
K1-3	K4-8	A 729	IMU TEMP CCNTRCL K2 PIN 5	4	466
K1-4	J27-H1	A 739	IMU TEMP ALARM BIAS RESISTOR	4	460
K1-5	J5-HH	A 720L	AUTO CVRC AND PRCP MODE CMC LC	4	138
K1-5	K6-5	A 721L	AUTO CVRC AND PRCP MODE CMC LC	4	138
K1-7	J27-H2	A 736	IMU TEMP ALARM AMPL PIN 5	4	461
K1-7	K5-8	A 737	IMU TEMP ALARM AMPL PIN 5	4	461
K1-8	J27-G1	A 728	IMU TEMP ALARM AMPL PIN 14	4	458
	K 2		RELAY 1015832-318		
K2-1	J5-mm	A 723R	AUTO CVRC MCDE CMC HI	4	129
K2-3	J27-P5	A 732	IMU TEMP CONTRCL K1 PIN 3	4	464
K2-4	J27-L1	A 726	IMU TEMP CCNT K2 PIN 6	4	462
K2-5	J5-DD	A 723L	AUTO CVRC MCDE CMC LO	4	136
K2-7	J2-Y	A 724	EMERG HTR CCNT MCC LO	4	52
K2-7	K5-7	A 725	EMERG HTR CCNT MCC LO	4	52
K2-8	J27-N6	A 731	IMU HEATER CURRENT AMPL PIN 5	4	467
K2-8	K4-3	A 733	IMU HEATER CURRENT AMPL PIN 5	4	467

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FRCM	TO	LEAC NO	C I R C U I T F U N C T I O N	PEN NCTE	NET. NO.
	K 3		RELAY 1015832-318		
K3-1	J5-ee	A 744	PRCP MCDE CMC HI	4	132
K3-4	K4-3	A 734	IMU HEATER CURRENT AMPL PIN 5	4	467
K3-5	K14-2	A 368	PRCP AND BACKUP MCDE CMC LO	4	130
K3-5	K4-5	A 745	PRCP AND BACKUP MCDE CMC LC	4	130
K3-7	J27-P6	A 735	IMU TEMP CCNTRCL AMP PIN 5	4	465
	K 4		RELAY 1015832-318		
K4-1	K6-4	A 742	IMC AUTO CVRC AND PROP MODE CMC HI	4	512
K4-3	K2-8	A 733	IMU HEATER CURRENT AMPL PIN 5	4	467
K4-3	K3-4	A 734	IMU HEATER CURRENT AMPL PIN 5	4	467
K4-5	J5-Xe	A 741	PRCP AND BACKUP MCDE CMC LO	4	130
K4-5	K3-5	A 745	PRCP AND BACKUP MCDE CMC LC	4	130
K4-8	K1-3	A 729	IMU TEMP CCNTRCL K2 PIN 5	4	466
K4-8	J27-N5	A 730	IMU TEMP CCNTRCL K2 PIN 5	4	466
	K 5		RELAY 1015832-318		
K5-1	J5-EE	A 722R	EMERG MCDE CMC HI	4	137
K5-3	J27-C2	A 738	IMU TEMP ALARM AMP PIN 15	4	459
K5-4	J27-M1	A 727	C VCC IMU	4	463
K5-5	J5-CC	A 722L	EMERG MCDE CMC LC	4	135
K5-7	K2-7	A 725	EMERG HTR CCNT MCC LO	4	52
K5-8	K1-7	A 737	IMU TEMP ALARM AMP PIN 5	4	461

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FRCM	TO	LEAC NO	C I R C U I T F U N C T I O N	PEN NCTE	NET. NO.
	K 6		RELAY 1015832-318		
K6-1	K1-1	A 721R	AUTO CVRC PROP AND BACKUP MODE CM HI	4	131
K6-1	K6-6	A 740	IMC AUTC CVRC AND PROP MCDE CMC HI	4	131
K6-4	K4-1	A 742	IMC AUTC CVRC AND PROP MCDE CMC HI	4	512
K6-5	K1-5	A 721L	AUTC CVRC AND PROP MCDE CMC LC	4	138
K6-6	K6-1	A 740	IMC AUTC CVRC AND PROP MODE CMC HI	4	131
K6-6	J5-Ye	A 743	AUTC CVRC PROP AND BACKUP MODE CMC HI	4	131
	K13		RELAY 1015914-001		
K13-1	J14-C	A 616L	3200 CPS 2V LO	4	293
K13-2	T81-12C	A 611L	3200 CPS 2V LO	4	126
K13-3	J1-S	A 614L	3200 CPS 2V LO	4	25
K13-3	J14-Re	A 615L	3200 CPS 2V LO	4	25
K13-4	J12-Ee	A 608R	DUCD EXC SWITCHING CMC HI	4	236
K13-5	J1-R	A 614R	3200 CPS 2V HI	4	24
K13-5	J14-Ae	A 615R	3200 CPS 2V HI	4	24
K13-6	TP1-11A	A 611R	3200 CPS 2V HI	4	125
K13-7	J14-A	A 616R	3200 CPS 2V HI	4	292
K13-8	J12-Re	A 618L	3000 CPS 2V FDBK LC	4	234
K13-9	J21-G3	A 619L	3200 CPS 2V FDBK LC	4	269
K13-10	J1-U	A 617L	3200 CPS 2V FDBK LC	4	27
K13-11	J12-Fe	A 608L	DUCD EXC SWITCHING CMC LO	4	237
K13-12	J1-T	A 617R	3200 CPS 2V FDBK HI	4	26
K13-13	J21-F3	A 619R	3200 CPS 2V FDBK HI	4	268
K13-14	J12-Ae	A 618R	3200 CPS 2V FDBK HI	4	233

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FRCM	TO	LEAC NO	C I R C U I T F U N C T I O N	PEN NCTE	NET. NO.
	K14		RELAY 1015837-001		
K14-1	J11-he	A 369	WHEELS DISABLE CMC	4	216
K14-2	K3-5	A 368	PRCP AND BACKUP MCDE CMC LO	4	130
K14-3	J14-T	A 821L	800 CPS 28V 5 PCT IMU WHL LO	4	298
K14-4	J22-R1	A 371L	800 CPS 28V 5 PCT IMU WHL LO	4	230
K14-5	J2-B	A 372L	800 CPS 28V 5 PCT IMU WHL LO	4	37
K14-6	J14-L	A 821Y	800 CPS 28V 5 PCT IMU WHL PH B	4	299
K14-7	J22-P2	A 371Y	800 CPS 28V 5 PCT IMU WHL PHASE B	4	229
K14-8	J2-C	A 372Y	800 CPS 28V 5 PCT IMU WHL PHASE B	4	38
K14-9	J14-V	A 821R	800 CPS 28V 5 PCT IMU WHL PH A	4	300
K14-10	J22-P1	A 371R	800 CPS 28V 5 PCT IMU WHL PHASE A	4	228
K14-11	J2-A	A 372R	800 CPS 28V 5 PCT IMU WHL PHASE A	4	36
	SHLC		SHIELD GROUND		
SHLD A1	J13-A	A	1A G CDU ENCCDER COMMCN		25C P DIFFERENT
SHLD A1	J25-C1	A	1B IG CDU ENCCDER COMMCN		259
SHLD A2	J13-S	A	2A MG CDU ENCCDER COMMCN		262
SHLD A2	J25-F2	A	2B MG CDU ENCCDER COMMCN		262
SHLD A3	J13-T	A	3A OG CDU ENCCDER COMMCN		267
SHLD A3	J25-E3	A	3B OG CDU ENCCDER COMMCN		267
SHLD A4	T81-40A	A	4B IG DAC MCA SIGNAL LC		1
SHLD A4	J1C-E2	A	4X IG DAC MCA SIGNAL LC		1
SHLD A5	T81-40B	A	5B IG DAC MCA SIGNAL LC		1
SHLD A5	J1C-F2	A	5X IG DAC MCA SIGNAL LC		1
SHLD A6	T81-40C	A	6B IG DAC MCA SIGNAL LC		1
SHLD A6	J9-A2	A	6X IG DAC MCA SIGNAL LC		1
SHLD A7	T81-40D	A	7B IG DAC MCA SIGNAL LC		1
SHLD A7	J9-B2	A	7X IG DAC MCA SIGNAL LC		1
SHLD A13	E27	A	13B SHIELD GRC		7
SHLD A14	T81-42A	A	14B MG DAC MCA SIGNAL LC		3

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A14	J10-G2	A 14X	MG DAC MCA SIGNAL LO		3
SHLD A15	TB1-42B	A 15B	MG DAC MCA SIGNAL LO		3
SHLD A15	J10-J2	A 15X	MG DAC MCA SIGNAL LO		3
SHLD A16	TB1-42C	A 16B	MG DAC MCA SIGNAL LO		3
SHLD A16	J9-G2	A 16X	MG DAC MCA SIGNAL LO		3
SHLD A17	TB1-42D	A 17B	MG DAC MCA SIGNAL LO		3
SHLD A17	J9-D2	A 17X	MG DAC MCA SIGNAL LO		3
SHLD A22	E27	A 22B	SHIELD GRD		7
SHLD A23	TB1-44A	A 23B	OG DAC MCA SIGNAL LO		5
SHLD A23	J10-K2	A 23X	OG DAC MCA SIGNAL LO		5
SHLD A24	TB1-44B	A 24B	OG DAC MCA SIGNAL LO		5
SHLD A24	J10-H2	A 24X	OG DAC MCA SIGNAL LO		5
SHLD A25	TB1-44C	A 25B	OG DAC MCA SIGNAL LO		5
SHLD A25	J9-E2	A 25X	OG DAC MCA SIGNAL LO		5
SHLD A26	TB1-44D	A 26B	OG DAC MCA SIGNAL LO		5
SHLD A26	J9-F2	A 26X	OG DAC MCA SIGNAL LO		5
SHLD A33	E27	A 33B	SHIELD GRD		7
SHLD A36	E20	A 36B	SHIELD GRD		7
SHLD A37	E20	A 37B	SHIELD GRD		7
SHLD A38	E20	A 38B	SHIELD GRD		7
SHLD A39	E20	A 39B	SHIELD GRD		7
SHLD A40	E19	A 40B	SHIELD GRD		7
SHLD A41	E19	A 41B	SHIELD GRD		7
SHLD A42	TB1-46A	A 42B	COMPUTER RETURN		169
SHLD A42	J8-E2	A 42X	COMPUTER RETURN		169
SHLD A43	TB1-46B	A 43B	COMPUTER RETURN		169
SHLD A43	J8-F2	A 43X	COMPUTER RETURN		169
SHLD A44	TB1-46C	A 44B	COMPUTER RETURN		169
SHLD A44	J8-G2	A 44X	COMPUTER RETURN		169
SHLD A45	TB1-46D	A 45B	COMPUTER RETURN		169
SHLD A45	J8-J2	A 45X	COMPUTER RETURN		169
SHLD A46	TB1-46A	A 46B	COMPUTER RETURN		169

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A46	J8-K2	A 46X	COMPUTER RETURN		169
SHLD A47	TB1-46B	A 47B	COMPUTER RETURN		169
SHLD A47	J8-H2	A 47X	COMPUTER RETURN		169
SHLD A52	E23	A 52A	SHIELD GRD		7
SHLD A53	E19	A 53B	SHIELD GRD		7
SHLD A54	E23	A 54A	SHIELD GRD		7
SHLD A55	E19	A 55B	SHIELD GRD		7
SHLD A73	E21	A 73B	SHIELD GRD		7
SHLD A74	E21	A 74B	SHIELD GRD		7
SHLD A75	E21	A 75B	SHIELD GRD		7
SHLD A76	E21	A 76B	SHIELD GRD		7
SHLD A78	E21	A 78B	SHIELD GRD		7
SHLD A79	E21	A 79B	SHIELD GRD		7
SHLD A80	E21	A 80B	SHIELD GRD		7
SHLD A81	E21	A 81B	SHIELD GRD		7
SHLD A82	E16	A 82A	SHIELD GRD		7
SHLD A84	E21	A 84B	SHIELD GRD		7
SHLD A116	E24	A 116A	SHIELD GRD		7
SHLD A117	E30	A 117A	SHIELD GRD		7
SHLD A118	E24	A 118A	SHIELD GRD		7
SHLD A119	E30	A 119A	SHIELD GRD		7
SHLD A120	E12	A 120B	SHIELD GRD		7
SHLD A121	E12	A 121B	SHIELD GRD		7
SHLD A126	E12	A 126B	SHIELD GRD		7
SHLD A127	E12	A 127B	SHIELD GRD		7
SHLD A128	E12	A 128B	SHIELD GRD		7
SHLD A130	E28	A 130A	SHIELD GRD		7
SHLD A131	E27	A 131A	SHIELD GRD		7
SHLD A132	E27	A 132A	SHIELD GRD		7
SHLD A133	E22	A 133A	SHIELD GRD		7
SHLD A135	E22	A 135A	SHIELD GRD		7
SHLD A136	E16	A 136A	SHIELD GRD		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A137	E27	A 137A	SHIELD GRD		7
SHLD A138	E27	A 138A	SHIELD GRD		7
SHLD A139	E22	A 139A	SHIELD GRD		7
SHLD A140	E27	A 140A	SHIELD GRD		7
SHLD A142	E22	A 142A	SHIELD GRD		7
SHLD A143	E16	A 143A	SHIELD GRD		7
SHLD A144	E27	A 144A	SHIELD GRD		7
SHLD A145	E27	A 145A	SHIELD GRD		7
SHLD A146	E17	A 146A	SHIELD GRD		7
SHLD A148	E17	A 148A	SHIELD GRD		7
SHLD A149	E27	A 149A	SHIELD GRD		7
SHLD A151	E22	A 151A	SHIELD GRD		7
SHLD A152	E16	A 152A	SHIELD GRD		7
SHLD A153	E28	A 153A	SHIELD GRD		7
SHLD A154	E28	A 154A	SHIELD GRD		7
SHLD A155	E28	A 155A	SHIELD GRD		7
SHLD A156	E28	A 156A	SHIELD GRD		7
SHLD A157	E16	A 157B	SHIELD GRD		7
SHLD A158	E16	A 158B	SHIELD GRD		7
SHLD A159	E16	A 159B	SHIELD GRD		7
SHLD A164	E24	A 164A	SHIELD GRD		7
SHLD A165	E16	A 165B	SHIELD GRD		7
SHLD A166	E24	A 166A	SHIELD GRD		7
SHLD A167	E16	A 167B	SHIELD GRD		7
SHLD A168	E23	A 168A	SHIELD GRD		7
SHLD A169	E16	A 169A	SHIELD GRD		7
SHLD A170	E23	A 170A	SHIELD GRD		7
SHLD A171	E16	A 171A	SHIELD GRD		7
SHLD A172	E23	A 172A	SHIELD GRD		7
SHLD A173	E16	A 173A	SHIELD GRD		7
SHLD A174	E23	A 174A	SHIELD GRD		7
SHLD A175	E17	A 175A	SHIELD GRD		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A182	TB1-52C	A 182A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A182	TB1-18A	A 182B	COMPUTER 800 PPS SYNC RETURN		7
SHLD A183	TB1-52D	A 183A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A183	TB1-18C	A 183B	COMPUTER 800 PPS SYNC RETURN		7
SHLD A184	TB1-18B	A 184A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A184	J7-B2	A 184X	COMPUTER 800 PPS SYNC RETURN		7
SHLD A185	TB1-18B	A 185A	COMPUTER 800 PPS SYNC RETURN		7
SHLD A185	J7-A2	A 185X	COMPUTER 800 PPS SYNC RETURN		7
SHLD A187	E17	A 187B	SHIELD GRD		7
SHLD A188	E17	A 188A	SHIELD GRD		7
SHLD A189	E17	A 189A	SHIELD GRD		7
SHLD A190	E17	A 190B	SHIELD GRD		7
SHLD A191	E17	A 191B	SHIELD GRD		7
SHLD A192	E17	A 192B	SHIELD GRD		7
SHLD A193	E18	A 193B	SHIELD GRD		7
SHLD A194	E18	A 194B	SHIELD GRD		7
SHLD A195	E18	A 195B	SHIELD GRD		7
SHLD A2C1	E18	A 2C1A	SHIELD GRD		7
SHLD A2C2	E18	A 2C2B	SHIELD GRD		7
SHLD A203	E18	A 2C3B	SHIELD GRD		7
SHLD A2C4	E18	A 2C4B	SHIELD GRD		7
SHLD A205	E18	A 2C5B	SHIELD GRD		7
SHLD A206	E18	A 2C6B	SHIELD GRD		7
SHLD A207	E18	A 2C7B	SHIELD GRD		7
SHLD A209	E15	A 2C9B	SHIELD GRD		7
SHLD A210	E15	A 210B	SHIELD GRD		7
SHLD A211	E15	A 211B	SHIELD GRD		7
SHLD A212	E15	A 212B	SHIELD GRD		7
SHLD A213	E23	A 213A	SHIELD GRD		7
SHLD A214	E15	A 214B	SHIELD GRD		7
SHLD A215	E23	A 215A	SHIELD GRD		7
SHLD A220	J31-S	A 220A	SCT TRUN TACH LO		492

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A220	J29-E1	A 220B	SCT TRUN TACH LO		492
SHLD A221	J31-P	A 221A	SCT TRUN 1 X RSVR S2		493
SHLD A221	J29-C1	A 221B	SCT TRUN 1 X RSVR S2		493
SHLD A222	TB3-16A	A 222A	SHIELD GRD		7
SHLD A223	J19-Z	A 223A	TRUN CDU 1/2 X RSVR S3		409
SHLD A223	J29-F1	A 223B	TRUN CDU 1/2 X RSVR S3		409
SHLD A224	TB3-16C	A 224A	SHIELD GRD		7
SHLD A225	E8	A 225B	SHIELD GRD		7
SHLD A226	J19-EE	A 226A	TRUN CDU 1G X RSVR S3		419
SHLD A226	J29-B4	A 226B	TRUN CDU 1G X RSVR S3		419
SHLD A227	J19-X*	A 227A	TRUN CDU TACH LC		422
SHLD A227	J29-B6	A 227B	TRUN CDU TACH LC		422
SHLD A228	E12	A 228A	SHIELD GRD		7
SHLD A229	E30	A 229A	SHIELD GRD		7
SHLD A230	E30	A 230A	SHIELD GRD		7
SHLD A232	E8	A 232B	SHIELD GRD		7
SHLD A233	E30	A 233A	SHIELD GRD		7
SHLD A235	J18-BB	A 235A	SHAFT CDU 1G X RSVR S3		389
SHLD A235	J29-E7	A 235B	SHAFT CDU 1G X RSVR S3		389
SHLD A236	J18-X*	A 236A	SHAFT CDU TACH LC		397
SHLD A236	J29-B9	A 236B	SHAFT CDU TACH LO		397
SHLD A237	E12	A 237A	SHIELD GRD		7
SHLD A245	E8	A 245B	SHIELD GRD		7
SHLD A246	E8	A 246B	SHIELD GRD		7
SHLD A247	E8	A 247B	SHIELD GRD		7
SHLD A248	E8	A 248B	SHIELD GRD		7
SHLD A249	E8	A 249B	SHIELD GRD		7
SHLD A250	E8	A 250B	SHIELD GRD		7
SHLD A254	J32-LL	A 254A	PHOTOMETER SIG LO		501
SHLD A254	J30-B9	A 254B	PHOTOMETER SIG LC		501
SHLD A255	E7	A 255B	SHIELD GRD		7
SHLD A256	E25	A 256A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A259	E25	A 259A	SHIELD GRD		7
SHLD A261	TB1-22D	A 261B	COMPUTER 102.4 KPPS SYNC RET		164
SHLD A261	J8-A2	A 261X	COMPUTER 102.4 KPPS SYNC RET.		164
SHLD A263	TB1-22C	A 263A	COMPUTER 102.4 KPPS SYNC RET		164
SHLD A263	J30-C3	A 263B	COMPUTER 102.4 KPPS SYNC RET		164
SHLD A268	E7	A 268A	SHIELD GRD		7
SHLD A269	E28	A 269A	SHIELD GRD		7
SHLD A271	E7	A 271A	SHIELD GRD		7
SHLD A272	E7	A 272A	SHIELD GRD		7
SHLD A273	E12	A 273A	SHIELD GRD		7
SHLD A279	E23	A 279A	SHIELD GRD		7
SHLD A28C	E23	A 28CA	SHIELD GRD		7
SHLD A281	E23	A 281A	SHIELD GRD		7
SHLD A282	E23	A 282A	SHIELD GRD		7
SHLD A288	E7	A 288A	SHIELD GRD		7
SHLD A289	E25	A 289A	SHIELD GRD		7
SHLD A290	E25	A 290A	SHIELD GRD		7
SHLD A291	E25	A 291A	SHIELD GRD		7
SHLD A294	E7	A 294A	SHIELD GRD		7
SHLD A295	E19	A 295A	SHIELD GRD		7
SHLD A297	TB1-33C	A 297B	C VCC IMU		7
SHLD A297	J9-J2	A 297X	O VCC IMU		7
SHLD A298	TB1-33D	A 298B	O VCC IMU		7
SHLD A298	J9-G2	A 298X	O VCC IMU		7
SHLD A299	TB1-34C	A 299B	C VCC IMU		7
SHLD A299	J9-H2	A 299X	O VCC IMU		7
SHLD A300	TB1-34D	A 3CCB	O VCC IMU		7
SHLD A300	J9-K2	A 3CCX	O VCC IMU		7
SHLD A301	TB1-35C	A 3C1B	C VCC IMU		7
SHLD A301	J10-E2	A 3C1X	O VCC IMU		7
SHLD A302	TB1-35D	A 3C2B	C VCC IMU		7
SHLD A302	J10-A2	A 3C2X	O VCC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A308	E19	A 3C8B	SHIELD GRD		7
SHLD A309	E19	A 3C9B	SHIELD GRD		7
SHLD A315	TB1-30A	A 315B	C VCC IMU		7
SHLD A315	J6-B2	A 315X	O VCC IMU		7
SHLD A316	TB1-30B	A 316B	O VCC IMU		7
SHLD A316	J10-C2	A 316X	O VCC IMU		7
SHLD A319	TB1-37B	A 319B	O VCC IMU		7
SHLD A319	J6-A2	A 319X	O VCC IMU		7
SHLD A320	E19	A 320B	SHIELD GRD		7
SHLD A335	E7	A 335A	SHIELD GRD		7
SHLD A336	E7	A 336A	SHIELD GRD		7
SHLD A338	E20	A 338A	SHIELD GRD		7
SHLD A339	E20	A 339A	SHIELD GRD		7
SHLD A345	E2C	A 345B	SHIELD GRD		7
SHLD A346	E20	A 346B	SHIELD GRD		7
SHLD A349	E2C	A 349B	SHIELD GRD		7
SHLD A350	E26	A 350A	SHIELD GRD		7
SHLD A351	E26	A 351A	SHIELD GRD		7
SHLD A352	E26	A 352A	SHIELD GRD		7
SHLD A357	TB1-25C	A 357B	COMPUTER 25.6 KPPS SYNC RET		7
SHLD A357	J7-E2	A 357X	COMPUTER 25.6 KPPS SYNC RET		7
SHLD A358	TB1-25D	A 358B	COMPUTER 25.6 KPPS SYNC RET		7
SHLD A358	J7-F2	A 358X	COMPUTER 25.6 KPPS SYNC RET		7
SHLD A360	E26	A 360A	SHIELD GRD		7
SHLD A361	E26	A 361A	SHIELD GRD		7
SHLD A362	E26	A 362A	SHIELD GRD		7
SHLD A367	E26	A 367A	SHIELD GRD		7
SHLD A370	E22	A 370B	SHIELD GRD		7
SHLD A371	E22	A 371A	SHIELD GRD		7
SHLD A372	E29	A 372B	SHIELD GRD		7
SHLD A382	TB1-6A	A 382B	COMPUTER 3200 PPS SYNC RET		7
SHLD A382	J7-D2	A 382X	COMPUTER 3200 PPS SYNC RET		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A383	TB1-6D	A 383B	COMPUTER 3200 PPS SYNC RET		7
SHLD A383	J7-C2	A 383X	COMPUTER 3200 PPS SYNC RET		7
SHLD A386	E26	A 386A	SHIELD GRD		7
SHLD A387	E14	A 387B	SHIELD GRD		7
SHLD A389	E25	A 389A	SHIELD GRD		7
SHLD A39C	E14	A 39CB	SHIELD GRD		7
SHLD A392	E25	A 392A	SHIELD GRD		7
SHLD A393	E14	A 393B	SHIELD GRD		7
SHLD A397	TB2-28C	A 397B	TRUN DELTA THETA CMD COMMON		145
SHLD A397	J6-E2	A 397X	TRUN DELTA THETA CMD COMMON		145
SHLD A398	TB2-28D	A 398B	TRUN DELTA THETA CMD COMMON		145
SHLD A398	J6-F2	A 398X	TRUN DELTA THETA CMD COMMON		145
SHLD A4C0	TB2-29C	A 4C0B	SHAFT DELTA THETA CMD COMMON		142
SHLD A4C0	J6-C2	A 4CCX	SHAFT DELTA THETA CMD COMMON		142
SHLD A4C1	TB2-29D	A 4C1B	SHAFT DELTA THETA CMD COMMON		142
SHLD A4C1	J6-D2	A 4C1X	SHAFT DELTA THETA CMD COMMON		142
SHLD A455	E22	A 455A	SHIELD GRD		7
SHLD A466	E8	A 466B	SHIELD GRD		7
SHLD A469	E12	A 469A	SHIELD GRD		7
SHLD A470	E8	A 470B	SHIELD GRD		7
SHLD A473	E8	A 473B	SHIELD GRD		7
SHLD A611	E22	A 611A	SHIELD GRD		7
SHLD A612	E22	A 612B	SHIELD GRD		7
SHLD A613	E22	A 613B	SHIELD GRD		7
SHLD A614	E29	A 614A	SHIELD GRD		7
SHLD A615	E29	A 615A	SHIELD GRD		7
SHLD A616	E28	A 616B	SHIELD GRD		7
SHLD A617	E23	A 617A	SHIELD GRD		7
SHLD A618	E29	A 618A	SHIELD GRD		7
SHLD A619	E29	A 619A	SHIELD GRD		7
SHLD A620	E22	A 620A	SHIELD GRD		7
SHLD A622	E25	A 622A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A624	TB2-55D	A 624A	STAR PRESENCE INPUT LO		150
SHLD A625	TB5-21	A 625B	STAR PRESENCE OUTPUT LO		150
SHLD A625	J6-K2	A 625X	STAR PRESENCE LO		150
SHLD A627	J48	A 627A	STAR PRESENCE TEST LO		150
SHLD A627	TB5-21	A 627B	STAR PRESENCE OUTPUT LO		150
SHLD A628	E9	A 628A	O VDC IMU		7
SHLD A629	TB5-3	A 629B	ACCEL FAIL RET		7
SHLD A629	J8-C2	A 629X	ACCEL FAIL RET		7
SHLD A631	E9	A 631A	O VDC IMU		7
SHLD A632	TB5-9	A 632B	CDU FAIL RET		7
SHLD A632	J8-C2	A 632X	CDU FAIL RET		7
SHLD A634	J42	A 634A	CDU FAIL TEST LO		7
SHLD A634	TB5-9	A 634B	CDU FAIL TEST LO		7
SHLD A635	E9	A 635A	O VDC IMU		7
SHLD A636	TB5-15	A 636B	IMU FAIL RET		7
SHLD A636	J8-B2	A 636X	IMU FAIL RET		7
SHLD A638	J44	A 638A	IMU FAIL TEST LO		7
SHLD A638	TB5-15	A 638B	IMU FAIL TEST LO		7
SHLD A641	TB1-28C	A 641B	O VDC IMU		7
SHLD A641	J10-C2	A 641X	O VDC IMU		7
SHLD A642	E21	A 642A	SHIELD GRD		7
SHLD A665	TB3-12C	A 665A	400 CPS SHIELD GRD		8
SHLD A666	TB3-12B	A 666A	400 CPS SHIELD GRD		8
SHLD A667	TB3-12C	A 667A	400 CPS SHIELD GRD		8
SHLD A668	TB3-12A	A 668A	400 CPS SHIELD GRD		8
SHLD A669	TB3-12B	A 669A	400 CPS SHIELD GRD		8
SHLD A670	TB3-12C	A 670A	400 CPS SHIELD GRD		8
SHLD A696	J18-L*	A 696A	SHAFT CDU ENCODER COMMON		395
SHLD A696	J27-C9	A 696B	SHAFT CDU ENCODER COMMON		395
SHLD A697	J19-G*	A 697A	TRUN CDU ENCODER COMMON		414
SHLD A697	J27-A7	A 697B	TRUN CDU ENCODER COMMON		414
SHLD A700	TB2-6A	A 700B	SHAFT ENCODER DELTA THETA OUTPUT COM		160

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A700	J7-K2	A 700X	SHAFT ENCODER DELTA THETA OUTPUT COM		160
SHLD A701	TB2-6B	A 701B	SHAFT ENCODER DELTA THETA OUTPUT COM		160
SHLD A701	J7-H2	A 701X	SHAFT ENCODER DELTA THETA OUTPUT COM		160
SHLD A704	TB2-6C	A 704B	TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD A704	J7-G2	A 704X	TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD A705	TB2-6D	A 705B	TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD A705	J7-J2	A 705X	TRUN ENCODER DELTA THETA OUTPUT COM		158
SHLD A707	E15	A 707B	SHIELD GRD		7
SHLD A708	E7	A 708A	SHIELD GRD		7
SHLD A711	E7	A 711A	SHIELD GRD		7
SHLD A746	E15	A 746B	SHIELD GRD		7
SHLD A753	E26	A 753A	SHIELD GRD		7
SHLD A754	E15	A 754B	SHIELD GRD		7
SHLD A763	E21	A 763A	SHIELD GRD		7
SHLD A764	E21	A 764A	SHIELD GRD		7
SHLD A765	E21	A 765A	SHIELD GRD		7
SHLD A766	E21	A 766A	SHIELD GRD		7
SHLD A770	E25	A 770A	SHIELD GRD		7
SHLD A771	E13	A 771A	SHIELD GRD		7
SHLD A772	J32-Z*	A 772A	SXT SHAFT 16 X RSVR S4		388
SHLD A772	TB2-14A	A 772B	SXT SHAFT 16 X RSVR S4		388
SHLD A773	J18-AA	A 773A	SXT SHAFT 16 X RSVR S4		388
SHLD A773	TB2-14C	A 773B	SXT SHAFT 16 X RSVR S4		388
SHLD A775	J32-J	A 775A	SXT SHAFT TACH LO		473
SHLD A775	J28-E7	A 775B	SXT SHAFT TACH LO		473
SHLD A777	E14	A 777B	SHIELD GRD		7
SHLD A782	E14	A 782A	SHIELD GRD		7
SHLD A783	E14	A 783A	SHIELD GRD		7
SHLD A787	E14	A 787A	SHIELD GRD		7
SHLD A788	E14	A 788A	SHIELD GRD		7
SHLD A791	E14	A 791A	SHIELD GRD		7
SHLD A792	E14	A 792A	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) SHLD	SHIELD GROUND				
SHLD A793	J32-Y*	A 793A	SXT TRUN 64 X RSVR S2		417
SHLD A793	TB2-20A	A 793B	SXT TRUN 64 X RSVR S2		417
SHLD A794	TB2-20C	A 794A	SXT TRUN 64 X RSVR S2		417
SHLD A794	J19-CD	A 794B	SXT TRUN 64 X RSVR S2		417
SHLD A796	J32-C*	A 796A	SXT TRUN TACH LO		474
SHLD A796	J28-B9	A 796B	SXT TRUN TACH LO		474
SHLD A799	E14	A 799A	SHIELD GRD		7
SHLD A8C1	J31-F*	A 8C1A	SCT SHAFT 1 X RSVR S4		478
SHLD A8C1	J28-C5	A 8C1B	SCT SHAFT 1 X RSVR S4		478
SHLD A8C4	E14	A 8C4A	SHIELD GRD		7
SHLD A8C5	J31-C*	A 8C5A	SCT SHAFT TACH LO		472
SHLD A8C5	J28-B5	A 8C5B	SCT SHAFT TACH LO		472
SHLD A8C6	E13	A 8C6A	SHIELD GRD		7
SHLD A8C7	E13	A 8C7A	SHIELD GRD		7
SHLD A8C8	E25	A 8C8A	SHIELD GRD		7
SHLD A8C9	E13	A 8C9A	SHIELD GRD		7
SHLD A810	E25	A 810A	SHIELD GRD		7
SHLD A811	E13	A 811A	SHIELD GRD		7
SHLD A814	J46	A 814A	ACCEL FAIL TEST LO		7
SHLD A814	TB5-3	A 814B	ACCEL FAIL TEST LO		7
SHLD A822	J32-Z	A 822A	O VDC OPTICS		7

TB1- 1 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002

TB1-1A			SPARE (+28 VDC IMU)		258
TB1-1A	TB1-1B		INTERNAL BUS		258
TB1-1A	J21-S1	A 98	+28 VDC IMU		258
TB1-1B	TB1-1A		INTERNAL BUS		258
TB1-1B	TB2-41A	A 96	+28 VDC IMU		258
TB1-1B	J21-S2	A 99	+28 VDC IMU		258

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 1	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB1-1C	TB1-1C		INTERNAL BUS		39
TB1-1C	TB2-42A	A 97	+28 VDC IMU		39
TB1-1C	J21-S4	A 100	+28 VDC IMU		39
TB1-1C			SPARE (+28 VDC IMU)		39
TB1-1C	TB1-1C		INTERNAL BUS		39
TB1-1C	J21-S5	A 101	+28 VDC IMU		

TB1- 2 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002

TB1-2A			SPARE (IG CDU 1X ERROR SIG)		276
TB1-2A	TB1-2B		INTERNAL BUS		276
TB1-2A	J26-C2	A 133R	IG CDU 1 X ERROR SIGNAL		276
TB1-2B	TB1-2A		INTERNAL BUS		276
TB1-2B	J13-P*	A 131R	IG CDU 1 X ERROR SIGNAL		276
TB1-2B	J21-A1	A 134R	IG CDU 1 X ERROR SIGNAL		276
TB1-2C	TB1-2D		INTERNAL BUS		69
TB1-2C	J26-C2	A 133L	IG CDU ERROR SIGNAL RETURN		69
TB1-2C	J21-R1	A 134L	IG CDU ERROR SIGNAL RETURN		69
TB1-2D			SPARE (IG CDU ERROR SIG RETURN)		69
TB1-2D	TB1-2C		INTERNAL BUS		69
TB1-2D	J13-C*	A 131L	IG CDU ERROR SIGNAL RETURN		69

TB1- 3 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002

TB1-3A	TB1-3B		INTERNAL BUS		280
TB1-3A	J26-C4	A 139R	MG CDU 1 X ERROR SIGNAL		280
TB1-3A	J21-A2	A 141R	MG CDU 1 X ERROR SIGNAL		280
TB1-3B			SPARE (MG CDU 1X ERROR SIG)		280

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SCALE-NONE	REV LTR C	SHEET 102 OF 173

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB1-3B	TB1-3A		INTERNAL BUS		280
TB1-3B	J13-b*	A 140R	MG CDU 1 X ERROR SIGNAL		280
TB1-3C	TB1-3D		INTERNAL BUS		70
TB1-3C	J26-C4	A 139L	MG CDU ERROR SIGNAL RETURN		70
TB1-3C	J21-E2	A 141L	MG CDU ERROR SIGNAL RETURN		70
TB1-3D			SPARE (MG CDU ERROR SIG RETURN)		70
TB1-3D	TB1-3C		INTERNAL BUS		70
TB1-3C	J13-X*	A 140L	MG CDU ERROR SIGNAL RETURN		70
	TB1- 4 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB1-4A	TB1-4B		INTERNAL BUS		287
TB1-4A	J13-C6	A 149R	CG CDU 1 X ERROR SIGNAL		287
TB1-4A	J21-A3	A 150R	CG CDU 1 X ERROR SIGNAL		287
TB1-4B			SPARE (CG CDU 1X ERROR SIG)		287
TB1-4B	TB1-4A		INTERNAL BUS		287
TB1-4B	TB1-4BA	A 149R	CG CDU 1 X ERROR SIGNAL		286
TB1-4C	TB1-4D		INTERNAL BUS		286
TB1-4C	J13-b4	A 149L	CG CDU ERROR SIGNAL RETURN		286
TB1-4C	J21-B3	A 150L	CG CDU ERROR SIGNAL RETURN		286
TB1-4D			SPARE (CG CDU ERROR SIG RETURN)		286
TB1-4C	TB1-4C		INTERNAL BUS		286
TB1-4D	TB1-49A	A 148L	CG CDU ERROR SIGNAL RETURN		286

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1- 5 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-5A	TB1-5B		INTERNAL BUS		40
TB1-5A	J2-F	A 332	- 28 VCC		40
TB1-5A	J21-A6	A 333	- 28 VCC		40
TB1-5B	TB1-5A		INTERNAL BUS		40
TB1-5B	TB1-5C		INTERNAL BUS		40
TB1-5B	J24-P6	A 330	- 28 VCC		40
TB1-5B	J23-P6	A 331	- 28 VCC		40
TB1-5C			SPARE (-28 VCC)		40
TB1-5C	TB1-5B		INTERNAL BUS		40
TB1-5C	TB1-5D		INTERNAL BUS		40
TB1-5C	J21-A6	A 334	- 28 VCC		40
TB1-5C			SPARE (-28 VCC)		40
TB1-5C			SPARE (-28 VCC)		40
TB1-5C	TB1-5C		INTERNAL BUS		40
	TB1- 6 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-6A	TB1-6B		INTERNAL BUS		7
TB1-6A	J21-C2	A 381	0 VDC IMU		7
TB1-6A	SHLD A3B2	A 382B	0 VDC IMU		7
TB1-6B	TB1-6A		INTERNAL BUS		7
TB1-6B	TB1-6C		INTERNAL BUS		7
TB1-6B	J21-P5	A 384L	COMPUTER 3200 PPS SYNC RET.		7
TB1-6B	TB3-18R	A 385	0 VDC IMU		7
TB1-6C			SPARE (0 VDC IMU)		7
TB1-6C	TB1-6B		INTERNAL BUS		7
TB1-6C	TB1-6D		INTERNAL BUS		7
TB1-6C	TB3-18F	A 815	0 VDC IMU		7
TB1-6D			SPARE (0 VDC IMU)		7
TB1-6C	TB1-6C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 6	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-6C	SHLD A3B3	A 383B	0 VDC IMU		7
	TB1- 7 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
TB1-7A	J7-D1	A 382E	COMPUTER 3200 PPS CLT OF PHASE SYNC		154
TB1-7A	J21-L6	A 384R	COMPUTER 3200 PPS CLT OF PHASE SYNC		154
TB1-7B	J7-C1	A 383E	COMPUTER 3200 PPS IN PHASE SYNC		153
TB1-7B	J21-P6	A 384Y	COMPUTER 3200 PPS IN PHASE SYNC		153
TB1-7C			SPARE		
TB1-7C			SPARE		
TB1-7D			SPARE		
TB1-7D			SPARE		
	TB1- 8 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-8A			SPARE (0 VDC IMU)		7
TB1-8A	TB1-8B		INTERNAL BUS		7
TB1-8A	J21-S6	A 439	0 VDC IMU		7
TB1-8B	TB1-8A		INTERNAL BUS		7
TB1-8B	TB1-8C		INTERNAL BUS		7
TB1-8B	J21-P2	A 438	0 VDC IMU		7
TB1-8B	TB3-18S	A 440	0 VDC IMU		7
TB1-8C	TB1-8B		INTERNAL BUS		7
TB1-8C	TB1-8D		INTERNAL BUS		7
TB1-8C	J21-R4	A 437	0 VDC IMU		7
TB1-8C	TB3-18P	A 441	0 VDC IMU		7
TB1-8D			SPARE (0 VDC IMU)		7
TB1-8C			SPARE (0 VDC IMU)		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1- 8	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-8C	TB1-8C		INTERNAL BUS		7
	TB1- 9 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-9A			SPARE (0 VDC IMU)		7
TB1-9A	TB1-9B		INTERNAL BUS		7
TB1-9A	J21-F6	A 444	0 VDC IMU		7
TB1-9B			SPARE (0 VDC IMU)		7
TB1-9B	TB1-9A		INTERNAL BUS		7
TB1-9B	TB1-9C		INTERNAL BUS		7
TB1-9B	TB3-18Q	A 445	0 VDC IMU		7
TB1-9C			SPARE (0 VDC IMU)		7
TB1-9C	TB1-9B		INTERNAL BUS		7
TB1-9C	TB1-9C		INTERNAL BUS		7
TB1-9C	TB3-18M	A 446	0 VDC IMU		7
TB1-9D			SPARE (0 VDC IMU)		7
TB1-9C	TB1-9C		INTERNAL BUS		7
TB1-9C	J21-R1	A 443	0 VDC IMU		7
	TB1-10 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-10A			SPARE (0 VDC IMU)		7
TB1-10A	TB1-10B		INTERNAL BUS		7
TB1-10A	J21-A9	A 448	0 VDC IMU		7
TB1-10B	TB1-10A		INTERNAL BUS		7
TB1-10B	TB1-10C		INTERNAL BUS		7
TB1-10B	J21-R5	A 449	0 VDC IMU		7
TB1-10B	TB3-18N	A 451	0 VDC IMU		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-10	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-10C			SPARE (0 VCC IMU)		7
TB1-10C	TB1-10B		INTERNAL BUS		7
TB1-10C	TB1-10D		INTERNAL BUS		7
TB1-10C	TB3-18K	A 452	0 VCC IMU		7
TB1-10D			SPARE (0 VCC IMU)		7
TB1-10D	TB1-10C		INTERNAL BUS		7
TB1-10D	J21-R6	A 450	0 VCC IMU		7
	TB1-11 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-11A	TB1-11B		INTERNAL BUS		125
TB1-11A	J21-L1	A 610R	3200 CPS 2V HI		125
TB1-11A	K13-E	A 611R	3200 CPS 2V HI		125
TB1-11B	TB1-11A		INTERNAL BUS		125
TB1-11B	TB1-11C		INTERNAL BUS		125
TB1-11B	J21-P1	A 610L	3200 CPS 2V HI		125
TB1-11B	J12-A	A 612R	3200 CPS 2V HI		125
TB1-11C			SPARE (3200 CPS 2V HI)		125
TB1-11C	TB1-11B		INTERNAL BUS		125
TB1-11C	TB1-11D		INTERNAL BUS		125
TB1-11C	J5-P*	A 613R	3200 CPS 2V HI		125
TB1-11D			SPARE (3200 CPS 2V HI)		125
TB1-11D			SPARE (3200 CPS 2V HI)		125
TB1-11D	TB1-11C		INTERNAL BUS		125

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB1-12 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-12A			SPARE (3200 CPS 2V LO)		126
TB1-12A			SPARE (3200 CPS 2V LO)		126
TB1-12A	TB1-12B		INTERNAL BUS		126
TB1-12B	TB1-12A		INTERNAL BUS		126
TB1-12B	TB1-12C		INTERNAL BUS		126
TB1-12B	J12-C	A 612L	3200 CPS 2V LO		126
TB1-12B	J5-C*	A 613L	3200 CPS 2V LO		126
TB1-12C	TB1-12B		INTERNAL BUS		126
TB1-12C	TB1-12D		INTERNAL BUS		126
TB1-12C	J21-L2	A 61CY	3200 CPS 2V LO		126
TB1-12C	K13-2	A 611L	3200 CPS 2V LO		126
TB1-12D	TB1-12C		INTERNAL BUS		126
TB1-12D	J21-P2	A 610K	3200 CPS 2V LO		126
TB1-12D	J22-K2	A 621	3200 CPS 2V LO		126
	TB1-13 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB1-13A	TB1-13B		INTERNAL BUS		232
TB1-13A	J22-K5	A 73R	25.6 KC HI IMU		232
TB1-13A	J12-I*	A 73R	25.6 KC HI IMU		232
TB1-13B	TB1-13A		INTERNAL BUS		232
TB1-13B	TB1-13C		INTERNAL BUS		232
TB1-13B	J12-V	A 74R	25.6 KC HI IMU		232
TB1-13B	J14-F*	A 75R	25.6 KC HI IMU		232
TB1-13C			SPARE (25.6 KC HI IMU)		232
TB1-13C	TB1-13B		INTERNAL BUS		232
TB1-13C	TB1-13D		INTERNAL BUS		232
TB1-13C	J25-K6	A 76R	25.6 KC HI IMU		232
TB1-13D			SPARE (25.6 KC HI IMU)		232
TB1-13D			SPARE (25.6 KC HI IMU)		232

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-13D	TB1-13C		INTERNAL BUS		232
	TB1-14 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-14A	TB1-14B		INTERNAL BUS		7
TB1-14A	J22-P5	A 72L	25.6 KC LC IMU		7
TB1-14A	J12-J*	A 73L	25.6 KC LC IMU		7
TB1-14B	TB1-14A		INTERNAL BUS		7
TB1-14B	TB1-14C		INTERNAL BUS		7
TB1-14B	J12-h	A 74L	25.6 KC LC IMU		7
TB1-14B	TB1-28B	A 647	0 VCC IMU		7
TB1-14C			SPARE (25.6 KC LC IMU)		7
TB1-14C	TB1-14B		INTERNAL BUS		7
TB1-14C	TB1-14D		INTERNAL BUS		7
TB1-14C	J14-G*	A 75L	25.6 KC LC IMU		7
TB1-14D			SPARE (25.6 KC LC IMU)		7
TB1-14D	TB1-14C		INTERNAL BUS		7
TB1-14D	J25-K5	A 76L	25.6 KC LC IMU		7
	TB1-15 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-15A	TB1-15B		INTERNAL BUS		10
TB1-15A	J22-K3	A 77R	800 CPS 28V 1 PCT HI IMU		10
TB1-15A	J12-T	A 78R	800 CPS 28V 1 PCT HI IMU		10
TB1-15B	TB1-15A		INTERNAL BUS		10
TB1-15B	TB1-15C		INTERNAL BUS		10
TB1-15B	J25-P6	A 80R	800 CPS 28V 1 PCT HI IMU		10
TB1-15B	J21-K5	A 83R	800 CPS 28V 1 PCT HI IMU		10

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-15	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-15C	TB1-15B		INTERNAL BUS		10
TB1-15C	TB1-15D		INTERNAL BUS		10
TB1-15C	J26-S4	A 81R	800 CPS 28V 1 PCT HI IMU		10
TB1-15C	J3C-F9	A 84R	800 CPS 28V 1 PCT HI IMU		10
TB1-15D			SPARE (800 CPS 28V 1 PCT HI IMU)		10
TB1-15D	TB1-15C		INTERNAL BUS		10
TB1-15D	J14-H*	A 79R	800 CPS 28V 1 PCT HI IMU		10
	TB1-16 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-16A	TB1-16B		INTERNAL BUS		231
TB1-16A	J22-P3	A 77L	800 CPS 28V 1 PCT LC IMU		231
TB1-16A	J12-L	A 78L	800 CPS 28V 1 PCT LC IMU		231
TB1-16B	TB1-16A		INTERNAL BUS		231
TB1-16B	TB1-16C		INTERNAL BUS		231
TB1-16B	J25-P5	A 80L	800 CPS 28V 1 PCT LC IMU		231
TB1-16B	J21-K4	A 83L	800 CPS 28V 1 PCT LC IMU		231
TB1-16C	TB1-16B		INTERNAL BUS		231
TB1-16C	TB1-16D		INTERNAL BUS		231
TB1-16C	J26-S3	A 81L	800 CPS 28V 1 PCT LC IMU		231
TB1-16C	J3C-F8	A 84L	800 CPS 28V 1 PCT LC IMU		231
TB1-16D			SPARE (800 CPS 28V 1 PCT LO IMU)		231
TB1-16D	TB1-16C		INTERNAL BUS		231
TB1-16D	J14-I*	A 79L	800 CPS 28V 1 PCT LC IMU		231

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			T81-17 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
T81-17A			SPARE (+28 VDC IMU)		258
T81-17A	T81-17B		INTERNAL BUS		258
T81-17A	J22-S3	A 1C8	+28 VDC IMU		258
T81-17B	T81-17A		INTERNAL BUS		258
T81-17B	T81-17C		INTERNAL BUS		258
T81-17B	T82-41D	A 1C2	+28 VDC IMU		258
T81-17B	J22-S1	A 1C6	+28 VDC IMU		258
T81-17C	T81-17B		INTERNAL BUS		258
T81-17C	T81-17D		INTERNAL BUS		258
T81-17C	T82-41C	A 1C3	+28 VDC IMU		258
T81-17C	J22-S2	A 1C7	+28 VDC IMU		258
T81-17D			SPARE (+28 VDC IMU)		258
T81-17D	T81-17C		INTERNAL BUS		258
T81-17D	J22-S4	A 1C9	+28 VDC IMU		258
			T81-18 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
T81-18A	T81-18B		INTERNAL BUS		7
T81-18A	SHLD A182	A 182B	COMPUTER 800 PPS SYNC RETURN		7
T81-18A	J22-F1	A 186L	COMPUTER 800 PPS SYNC RETURN		7
T81-18B	T81-18A		INTERNAL BUS		7
T81-18B	T81-18C		INTERNAL BUS		7
T81-18B	SHLD A184	A 184A	COMPUTER 800 PPS SYNC RETURN		7
T81-18B	SHLD A185	A 185A	COMPUTER 800 PPS SYNC RETURN		7
T81-18C			SPARE (0 VDC IMU)		7
T81-18C	T81-18B		INTERNAL BUS		7
T81-18C	T81-18D		INTERNAL BUS		7
T81-18C	T81-27D	A 652	0 VDC IMU		7
T81-18D			SPARE (0 VDC IMU)		7
T81-18D	T81-18C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) T81-18			8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
T81-18D	SHLD A183	A 183B	COMPUTER 800 PPS SYNC RETURN		7
			T81-19 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002		
T81-19A	T81-19B		INTERNAL BUS		152
T81-19A	T81-52A	A 182E	COMPUTER 800 PPS OUT OF PHASE SYNC		152
T81-19A	J22-C1	A 186R	COMPUTER 800 PPS OUT OF PHASE SYNC		152
T81-19B			SPARE (COMPUTER 800 PPS OUT OF PHASE SYNC)		152
T81-19B	TP1-19A		INTERNAL BUS		152
T81-19B	J7-B1	A 184E	COMPUTER 800 PPS OUT OF PHASE SYNC		152
T81-19C	T81-19D		INTERNAL BUS		151
T81-19C	T81-52B	A 183E	COMPUTER 800 PPS IN PHASE SYNC		151
T81-19C	J22-C2	A 186Y	COMPUTER 800 PPS IN PHASE SYNC		151
T81-19D			SPARE (COMPUTER 800 PPS IN PHASE SYNC)		151
T81-19D	T81-19C		INTERNAL BUS		151
T81-19D	J7-A1	A 185E	COMPUTER 800 PPS IN PHASE SYNC		151
			T81-20 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
T81-20A			SPARE (25.6 KC HI CPTICS)		344
T81-20A	T81-20B		INTERNAL BUS		344
T81-20A	J27-P3	A 763R	25.6 KC HI CPTICS		344
T81-20B	T81-20A		INTERNAL BUS		344
T81-20B	T81-20C		INTERNAL BUS		344
T81-20B	J22-P6	A 762R	25.6 KC HI CPTICS		344
T81-20B	J18-K	A 764R	25.6 KC HI CPTICS		344
T81-20C			SPARE (25.6 KC HI CPTICS)		344
T81-20C	T81-20B		INTERNAL BUS		344

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) T81-20			8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
T81-20C	T81-20D		INTERNAL BUS		344
T81-20C	J19-K	A 765R	25.6 KC HI CPTICS		344
T81-20D			SPARE (25.6 KC HI CPTICS)		344
T81-20D	T81-20C		INTERNAL BUS		344
T81-20D	J16-HH	A 766R	25.6 KC HI CPTICS		344
			T81-21 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
T81-21A			SPARE (25.6 KC LO CPTICS)		7
T81-21A	T81-21B		INTERNAL BUS		7
T81-21A	J27-N3	A 763L	25.6 KC LO CPTICS		7
T81-21B	T81-21A		INTERNAL BUS		7
T81-21B	T81-21C		INTERNAL BUS		7
T81-21B	J22-N6	A 762L	25.6 KC LO CPTICS		7
T81-21B	J18-L	A 764L	25.6 KC LO CPTICS		7
T81-21C			SPARE (25.6 KC LO CPTICS)		7
T81-21C	T81-21B		INTERNAL BUS		7
T81-21C	T81-21D		INTERNAL BUS		7
T81-21C	J19-L	A 765L	25.6 KC LO CPTICS		7
T81-21D			SPARE (25.6 KC LO CPTICS)		7
T81-21C	T81-21C		INTERNAL BUS		7
T81-21C	J16-JJ	A 766L	25.6 KC LO CPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			T81-22 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002		
T81-22A	T81-22B		INTERNAL BUS		163
T81-22A	J22-K1	A 262R	COMPUTER 102.4 KPPS SYNC		163
T81-22A	J30-F3	A 263E	102.4 KPPS INPUT HI		163
T81-22B			SPARE (102.4 KPPS SYNC)		163
T81-22B	T81-22A		INTERNAL BUS		163
T81-22B	J8-A1	A 261E	COMPUTER 102.4 KPPS SYNC		163
T81-22C	T81-22D		INTERNAL BUS		164
T81-22C	J22-F1	A 262L	COMPUTER 102.4 KPPS SYNC RET		164
T81-22C	SHLD A263	A 263A	COMPUTER 102.4 KPPS SYNC RET		164
T81-22C			SPARE (102.4 KPPS SYNC)		164
T81-22D	T81-22C		INTERNAL BUS		164
T81-22C	SHLD A261	A 261B	COMPUTER 102.4 KPPS SYNC RET		164
			T81-23 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002		
T81-23A	T81-23B		INTERNAL BUS		443
T81-23A	J24-S3	A 327R	+ 12 VCC GYRO		443
T81-23A	J22-P6	A 329R	+ 12 VCC GYRO		443
T81-23B			SPARE (+12 VCC GYRO)		443
T81-23B			SPARE (+12 VCC GYRO)		443
T81-23B	T81-23A		INTERNAL BUS		443
T81-23C	T81-23D		INTERNAL BUS		442
T81-23C	J24-S5	A 327L	+ 32 VCC GYRO		442
T81-23C	J22-P5	A 329L	+ 32 VCC GYRO		442
T81-23C			SPARE (+32 VCC GYRO)		442
T81-23C	T81-23C		INTERNAL BUS		442
T81-23D	J23-S3	A 328R	+ 32 VCC GYRO		442

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-24 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T81-24A	T81-24B		INTERNAL BUS		441
T81-24A	J24-S2	A 327Y	+ 120 VDC GYRO		441
T81-24A	J22-L6	A 329Y	+ 120 VDC GYRO		441
T81-24B			SPARE (+120 VDC GYRO)		441
T81-24B	T81-24A		INTERNAL BUS		441
T81-24B	J23-S1	A 328L	+ 120 VDC GYRO		441
T81-24C	T81-24D		INTERNAL BUS		440
T81-24C	J24-R2	A 327K	+ 12,32,120 VDC GYRO RET		440
T81-24C	J22-K6	A 329K	+ 12,32,120 VDC GYRO RET		440
T81-24D			SPARE (+12,32,120 VDC GYRO RET)		440
T81-24D	T81-24C		INTERNAL BUS		440
T81-24D	J23-R1	A 328Y	+ 12,32,120 VDC GYRO RET		440
	T81-25 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004				
T81-25A	J7-E1	A 357E	COMPUTER 25.6 KPPS IN PHASE SYNC		155
T81-25A	J22-G1	A 359R	COMPUTER 25.6 KPPS IN PHASE SYNC		155
T81-25B	J7-F1	A 358E	COMPUTER 25.6 KPPS OUT OF PHASE SYNC		156
T81-25B	J22-G2	A 359Y	COMPUTER 25.6 KPPS OUT OF PHASE SYNC		156
T81-25C	T81-25D		INTERNAL BUS		7
T81-25C	SHLD A357	A 357B	COMPUTER 25.6 KPPS SYNC RET		7
T81-25C	J22-F2	A 359L	COMPUTER 25.6 KPPS SYNC RET		7
T81-25D	T81-25C		INTERNAL BUS		7
T81-25D	SHLD A358	A 358B	COMPUTER 25.6 KPPS SYNC RET		7
T81-25D	T81-27A	A 651	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-26 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T81-26A	T81-26B		INTERNAL BUS		188
T81-26A	J21-A3	A 639	COMPUTER 12.8 KPPS SYNC		188
T81-26A	J22-P4	A 640	COMPUTER 12.8 KPPS SYNC		188
T81-26B	T81-26A		INTERNAL BUS		188
T81-26B	J16-C1	A 641E	COMPUTER 12.8 KPPS SYNC		188
T81-26B	J27-P3	A 642K	COMPUTER 12.8 KPPS SYNC		188
T81-26C			SPARE		
T81-26C			SPARE		
T81-26C	T81-26D		INTERNAL BUS		
T81-26D			SPARE		
T81-26D			SPARE		
T81-26D	T81-26C		INTERNAL BUS		
	T81-27 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T81-27A			SPARE (0 VDC IMU)		7
T81-27A	T81-27B		INTERNAL BUS		7
T81-27A	T81-25D	A 651	0 VDC IMU		7
T81-27B	T81-27A		INTERNAL BUS		7
T81-27B	T81-27C		INTERNAL BUS		7
T81-27B	J22-R4	A 653	0 VDC IMU		7
T81-27B	T83-18C	A 655	0 VDC IMU		7
T81-27C	T81-27B		INTERNAL BUS		7
T81-27C	T81-27D		INTERNAL BUS		7
T81-27C	J22-R5	A 654	0 VDC IMU		7
T81-27C	T83-18B	A 656	0 VDC IMU		7
T81-27D			SPARE (0 VDC IMU)		7
T81-27D	T81-27C		INTERNAL BUS		7
T81-27D	T81-18C	A 652	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-28 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T81-28A	T81-28B		INTERNAL BUS		7
T81-28A	E9	A 645	0 VDC IMU		7
T81-28A	E10	A 646	0 VDC IMU		7
T81-28B	T81-28A		INTERNAL BUS		7
T81-28B	T81-28C		INTERNAL BUS		7
T81-28B	J22-R2	A 643	0 VDC IMU		7
T81-28B	T81-14B	A 647	0 VDC IMU		7
T81-28C	T81-28B		INTERNAL BUS		7
T81-28C	T81-28D		INTERNAL BUS		7
T81-28C	J22-R3	A 644	0 VDC IMU		7
T81-28C	T83-18L	A 648	0 VDC IMU		7
T81-28D	T81-28C		INTERNAL BUS		7
T81-28D	SHLD A641	A 641B	0 VDC IMU		7
T81-28D	T83-18J	A 649	0 VDC IMU		7
	T81-29 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T81-29A	T81-29B		INTERNAL BUS		187
T81-29A	J16-C1	A 316E	PIPA SWITCHING PULSE		187
T81-29A	J23-N6	A 318	PIPA SWITCHING PULSE		187
T81-29B			SPARE (PIPA SWITCHING PULSE)		187
T81-29B	T81-29A		INTERNAL BUS		187
T81-29B	J24-K3	A 313	PIPA SWITCHING PULSE		187
T81-29C	T81-29D		INTERNAL BUS		140
T81-29C	J6-B1	A 315E	PIPA INTERROGATE PULSE		140
T81-29C	J23-N5	A 317	PIPA INTERROGATE PULSE		140
T81-29C			SPARE (PIPA INTERROGATE PULSE)		140
T81-29C	T81-29C		INTERNAL BUS		140
T81-29D	J24-F3	A 314	PIPA INTERROGATE PULSE		140

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-30 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T81-30A	T81-30B		INTERNAL BUS		7
T81-30A	SHLD A315	A 315B	0 VDC IMU		7
T81-30A	T81-32A	A 341	0 VDC IMU		7
T81-30B			SPARE (0 VDC IMU)		7
T81-30B	T81-30A		INTERNAL BUS		7
T81-30B	SHLD A316	A 316B	0 VDC IMU		7
T81-30C			SPARE		
T81-30C			SPARE		
T81-30C	T81-30D		INTERNAL BUS		
T81-30D			SPARE		
T81-30D			SPARE		
T81-30D	T81-30C		INTERNAL BUS		
	T81-31 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004				
T81-31A	J23-C2	A 337R	X PIP ERROR MONITOR		209
T81-31A	J11-Z	A 338R	X PIP ERROR MONITOR		209
T81-31B	J23-F2	A 337L	Y PIP ERROR MONITOR		196
T81-31B	J11-C	A 339R	Y PIP ERROR MONITOR		196
T81-31C			SPARE (0 VDC IMU)		7
T81-31C	J11-E	A 339L	0 VDC IMU		7
T81-31C	T81-31D		INTERNAL BUS		7
T81-31D	T81-31C		INTERNAL BUS		7
T81-31D	J11-A*	A 338L	0 VDC IMU		7
T81-31D	T81-32C	A 340	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			TB1-32 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
TB1-32A			SPARE (O VCC IMU)		7
TB1-32A	TB1-32B		INTERNAL BUS		7
TB1-32A	TB1-30A	A 341	O VCC IMU		7
TB1-32B	TB1-32A		INTERNAL BUS		7
TB1-32B	TB1-32C		INTERNAL BUS		7
TB1-32B	TB3-18V	A 343	O VCC IMU		7
TB1-32B	TB3-18V	A 344	O VCC IMU		7
TB1-32C	TB1-32B		INTERNAL BUS		7
TB1-32C	TB1-32D		INTERNAL BUS		7
TB1-32C	TB1-31D	A 340	O VCC IMU		7
TB1-32C	J23-R6	A 342	O VCC IMU		7
TB1-32C			SPARE (O VCC IMU)		7
TB1-32D			SPARE (O VCC IMU)		7
TB1-32D	TB1-32C		INTERNAL BUS		7
			TB1-33 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004		
TB1-33A	J9-J1	A 297E	+ CX GYRC RATE		183
TB1-33A	J24-C1	A 3C5R	+ CX GYRC RATE		183
TB1-33B	J9-G1	A 298E	- CX GYRC RATE		181
TB1-33B	J24-C2	A 3C5L	- CX GYRC RATE		181
TB1-33C	TB1-33D		INTERNAL BUS		7
TB1-33C	SHLD A297	A 297B	O VCC IMU		7
TB1-33C	TB1-34C	A 3C3	O VCC IMU		7
TB1-33D			SPARE (O VCC IMU)		7
TB1-33D	TB1-33C		INTERNAL BUS		7
TB1-33D	SHLD A298	A 298B	O VCC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			TB1-34 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004		
TB1-34A	J9-H1	A 299E	+ CY GYRC RATE		182
TB1-34A	J24-C3	A 3C4R	+ CY GYRC RATE		182
TB1-34B	J9-K1	A 3CCE	- CY GYRC RATE		184
TB1-34B	J24-C4	A 306L	- CY GYRC RATE		184
TB1-34C	TB1-34D		INTERNAL BUS		7
TB1-34C	SHLC A299	A 299B	O VCC IMU		7
TB1-34C	TB1-33C	A 3C3	O VCC IMU		7
TB1-34C	TB1-34C		INTERNAL BUS		7
TB1-34C	SHLC A300	A 3C0B	O VCC IMU		7
TB1-34D	TB1-35C	A 3C4	O VCC IMU		7
			TB1-35 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004		
TB1-35A	J10-B1	A 301E	+ CZ GYRC RATE		186
TB1-35A	J24-C5	A 3C7R	+ CZ GYRC RATE		186
TB1-35B	J10-A1	A 3C2E	- CZ GYRC RATE		185
TB1-35B	J24-C6	A 3C7L	- CZ GYRC RATE		185
TB1-35C	TB1-35D		INTERNAL BUS		7
TB1-35C	SHLC A301	A 301B	O VCC IMU		7
TB1-35C	TB1-34D	A 3C4	O VCC IMU		7
TB1-35C	TB1-35C		INTERNAL BUS		7
TB1-35D	SHLD A302	A 302B	O VCC IMU		7
TB1-35D	TB1-37A	A 324	O VCC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			TB1-36 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001		
TB1-36A	J11-F	A 32CR	Z PIP ERROR MONITOR		197
TB1-36A	J24-F6	A 321	Z PIP ERROR MONITOR		197
TB1-36B	J6-A1	A 319E	GYRO RESET PULSE		139
TB1-36B	J24-K4	A 322	GYRO RESET PULSE		139
TB1-36C			SPARE		
TB1-36C			SPARE		
TB1-36D			SPARE		
TB1-36C			SPARE		
			TB1-37 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003		
TB1-37A	TB1-37B		INTERNAL BUS		7
TB1-37A	J11-G	A 320L	O VCC IMU		7
TB1-37A	TB1-35D	A 324	O VCC IMU		7
TB1-37B	TB1-37A		INTERNAL BUS		7
TB1-37B	TB1-37C		INTERNAL BUS		7
TB1-37B	SHLD A319	A 319B	O VCC IMU		7
TB1-37B	J24-R6	A 323	O VCC IMU		7
TB1-37C			SPARE (O VCC IMU)		7
TB1-37C	TB1-37B		INTERNAL BUS		7
TB1-37C	TB1-37D		INTERNAL BUS		7
TB1-37C	TB3-18W	A 325	O VCC IMU		7
TB1-37D			SPARE (O VCC IMU)		7
TB1-37C	TB1-37C		INTERNAL BUS		7
TB1-37C	TB3-18X	A 326	O VCC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			TB1-38 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002		
TB1-38A			SPARE		
TB1-38A			SPARE		
TB1-38A	TB1-38B		INTERNAL BUS		
TB1-38B			SPARE		
TB1-38B			SPARE		
TB1-38B	TB1-38A		INTERNAL BUS		
TB1-38C			SPARE		
TB1-38C			SPARE		
TB1-38C	TB1-38D		INTERNAL BUS		
TB1-38D			SPARE		
TB1-38C			SPARE		
TB1-38D	TB1-38C		INTERNAL BUS		
			TB1-39 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001		
TB1-39A	J10-E1	A	4E IG ENCODER + DELTA THETA		189
TB1-39A	J25-B4	A	8R IG ENCODER + DELTA THETA		189
TB1-39B	J10-F1	A	5E IG ENCODER - DELTA THETA		190
TB1-39B	J25-C4	A	8L IG ENCODER - DELTA THETA		190
TB1-39C	J9-A1	A	6E IG CDU + DELTA THETA COMMAND		175
TB1-39C	J25-B5	A	9R IG CDU + DELTA THETA COMMAND		175
TB1-39D	J9-B1	A	7E IG CDU - DELTA THETA COMMAND		176
TB1-39C	J25-C5	A	9L IG CDU - DELTA THETA COMMAND		176

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-40 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T81-40A	T81-40B		INTERNAL BUS		1
T81-40A	SHLD A4	A 4B	IG DAC MCA SIGNAL LC		1
T81-40A	J25-A5	A 10	IG DAC MCA SIGNAL LC		1
T81-40B			SPARE (IG DAC MCA SIG LO)		1
T81-40B	T81-40A		INTERNAL BUS		1
T81-40B	T81-40C		INTERNAL BUS		1
T81-40B	SHLD A5	A 5B	IG DAC MCA SIGNAL LC		1
T81-40C			SPARE (IG DAC MCA SIG LO)		1
T81-40C	T81-40B		INTERNAL BUS		1
T81-40C	T81-40D		INTERNAL BUS		1
T81-40C	SHLD A6	A 6B	IG DAC MCA SIGNAL LC		1
T81-40D			SPARE (IG DAC MCA SIG LO)		1
T81-40D	T81-40C		INTERNAL BUS		1
T81-40D	SHLD A7	A 7B	IG DAC MCA SIGNAL LC		1
	T81-41 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
T81-41A	J10-G1	A 14E	MG ENCODER + DELTA THETA		191
T81-41A	J25-P6	A 19R	MG ENCODER + DELTA THETA		191
T81-41B	J10-J1	A 15E	MG ENCODER - DELTA THETA		193
T81-41B	J25-C6	A 18L	MG ENCODER - DELTA THETA		193
T81-41C	J9-C1	A 16E	MG CDU + DELTA THETA COMMAND		177
T81-41C	J25-P7	A 28R	MG CDU + DELTA THETA COMMAND		177
T81-41D	J9-D1	A 17E	MG CDU - DELTA THETA COMMAND		178
T81-41D	J25-C7	A 28L	MG CDU - DELTA THETA COMMAND		178

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-42 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T81-42A	T81-42B		INTERNAL BUS		3
T81-42A	SHLD A14	A 14B	MG DAC MCA SIGNAL LC		3
T81-42A	J25-A7	A 19	MG DAC MCA SIGNAL LC		3
T81-42B			SPARE (MG DAC MCA SIG LO)		3
T81-42B	T81-42A		INTERNAL BUS		3
T81-42B	T81-42C		INTERNAL BUS		3
T81-42B	SHLD A15	A 15B	MG DAC MCA SIGNAL LC		3
T81-42C			SPARE (MG DAC MCA SIG LO)		3
T81-42C	T81-42B		INTERNAL BUS		3
T81-42C	T81-42D		INTERNAL BUS		3
T81-42C	SHLD A16	A 16B	MG DAC MCA SIGNAL LC		3
T81-42C			SPARE (MG DAC MCA SIG LO)		3
T81-42D	T81-42C		INTERNAL BUS		3
T81-42D	SHLD A17	A 17B	MG DAC MCA SIGNAL LC		3
	T81-43 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
T81-43A	J10-K1	A 23E	OG ENCODER + DELTA THETA		194
T81-43A	J25-P8	A 27R	OG ENCODER + DELTA THETA		194
T81-43B	J10-H1	A 24E	OG ENCODER - DELTA THETA		192
T81-43B	J25-C8	A 27L	OG ENCODER - DELTA THETA		192
T81-43C	J9-E1	A 25E	OG CDU + DELTA THETA COMMAND		179
T81-43C	J25-P9	A 29R	OG CDU + DELTA THETA COMMAND		179
T81-43D	J9-F1	A 26E	OG CDU - DELTA THETA COMMAND		180
T81-43D	J25-C9	A 29L	OG CDU - DELTA THETA COMMAND		180

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-44 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T81-44A	T81-44B		INTERNAL BUS		5
T81-44A	SHLD A23	A 23B	CG DAC MCA SIGNAL LC		5
T81-44A	J25-A9	A 30	CG DAC MCA SIGNAL LC		5
T81-44B			SPARE (CG DAC MCA SIG LO)		5
T81-44B	T81-44A		INTERNAL BUS		5
T81-44B	T81-44C		INTERNAL BUS		5
T81-44B	SHLD A24	A 24B	CG DAC MCA SIGNAL LC		5
T81-44C			SPARE (CG DAC MCA SIG LO)		5
T81-44C	T81-44B		INTERNAL BUS		5
T81-44C	T81-44D		INTERNAL BUS		5
T81-44C	SHLD A25	A 25B	CG DAC MCA SIGNAL LC		5
T81-44C			SPARE (CG DAC MCA SIG LO)		5
T81-44D	T81-44C		INTERNAL BUS		5
T81-44D	SHLD A26	A 26B	CG DAC MCA SIGNAL LC		5
	T81-45 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
T81-45A	J8-E1	A 42E	+ DELTA VX		168
T81-45A	J25-P5	A 48R	+ DELTA VX		168
T81-45B	J8-F1	A 43E	- DELTA VX		170
T81-45B	J25-P6	A 48L	- DELTA VX		170
T81-45C	J8-G1	A 44E	+ DELTA VY		171
T81-45C	J25-L6	A 49R	+ DELTA VY		171
T81-45D	J8-J1	A 45E	- DELTA VY		173
T81-45D	J25-K6	A 49L	- DELTA VY		173

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T81-46 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T81-46A	T81-46B		INTERNAL BUS		169
T81-46A	SHLD A42	A 42B	COMPUTER RETURN		169
T81-46A	SHLD A46	A 46B	COMPUTER RETURN		169
T81-46B	T81-46A		INTERNAL BUS		169
T81-46B	T81-46C		INTERNAL BUS		169
T81-46B	SHLD A43	A 43B	COMPUTER RETURN		169
T81-46B	SHLD A47	A 47B	COMPUTER RETURN		169
T81-46C	T81-46B		INTERNAL BUS		169
T81-46C	T81-46D		INTERNAL BUS		169
T81-46C	SHLD A44	A 44B	COMPUTER RETURN		169
T81-46C	J25-L5	A 51	COMPUTER RETURN		169
T81-46D			SPARE (COMPUTER RETURN)		169
T81-46D	T81-46C		INTERNAL BUS		169
T81-46D	SHLD A45	A 45B	COMPUTER RETURN		169
	T81-47 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
T81-47A	J8-K1	A 46E	+ DELTA VZ		174
T81-47A	J25-K5	A 5CR	+ DELTA VZ		174
T81-47B	J8-H1	A 47E	- DELTA VZ		172
T81-47B	J25-K4	A 5CL	- DELTA VZ		172
T81-47C			SPARE		
T81-47C			SPARE		
T81-47D			SPARE		
T81-47D			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			T81-48 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002		
T81-48A	T81-48B		INTERNAL BUS		287
T81-48A	J26-C6	A 147R	OG CDU 1 X ERROR SIGNAL		287
T81-48A	T81-4B	A 148R	OG CDU 1 X ERROR SIGNAL		287
T81-48B	T81-48A		INTERNAL BUS		287
T81-48B			SPARE (OG CDU 1X ERROR SIG)		287
T81-48B			SPARE (OG CDU 1X ERROR SIG)		285
T81-48C	T81-48D		INTERNAL BUS		285
T81-48C	J13-EE	A 145R	OG CDU 16 X ERROR SIGNAL		285
T81-48C	J26-C5	A 147Y	OG CDU 16 X ERROR SIGNAL		285
T81-48D	T81-48C		INTERNAL BUS		285
T81-48D			SPARE (OG CDU 16X ERROR SIG)		285
T81-48D	J27-A2	A 146R	OG CDU 16 X ERROR SIGNAL		285
			T81-49 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002		
T81-49A	T81-49B		INTERNAL BUS		286
T81-49A	J26-C6	A 147L	OG CDU ERROR SIGNAL RETURN		286
T81-49A	T81-4D	A 148L	OG CDU ERROR SIGNAL RETURN		286
T81-49B	T81-49A		INTERNAL BUS		286
T81-49B	J13-FF	A 145L	OG CDU ERROR SIGNAL RETURN		286
T81-49B	J27-B2	A 146L	OG CDU ERROR SIGNAL RETURN		286
T81-49C	T81-49D		INTERNAL BUS		286
T81-49C			SPARE		
T81-49C			SPARE		
T81-49C	T81-49C		INTERNAL BUS		
T81-49D			SPARE		
T81-49C			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
			T81-50 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-50A			SPARE		
T81-50A			SPARE		
T81-50A	T81-50B		INTERNAL BUS		
T81-50B			SPARE		
T81-50B			SPARE		
T81-50B	T81-50C		INTERNAL BUS		
T81-50B	T81-50A		INTERNAL BUS		
T81-50C			SPARE		
T81-50C			SPARE		
T81-50C	T81-50B		INTERNAL BUS		
T81-50C	T81-50D		INTERNAL BUS		
T81-50D			SPARE		
T81-50D			SPARE		
T81-50D	T81-50C		INTERNAL BUS		
			T81-51 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-51A	T81-51B		INTERNAL BUS		7
T81-51A	J11-K*	A 157L	0 VDC IMU		7
T81-51A	J26-P2	A 163	0 VDC IMU		7
T81-51B	T81-51A		INTERNAL BUS		7
T81-51B	T81-51C		INTERNAL BUS		7
T81-51B	J12-JJ	A 158L	0 VDC IMU		7
T81-51B	J12-PP	A 159L	C VDC IMU		7
T81-51C	T81-51B		INTERNAL BUS		7
T81-51C	T81-51D		INTERNAL BUS		7
T81-51C	TB3-18Z	A 161	0 VDC IMU		7
T81-51C	TB3-18Z	A 162	0 VDC IMU		7
T81-51D			SPARE (0 VDC IMU)		7
T81-51D	T81-51C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	T81-51		8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-51D	J26-R2	A 160	0 VDC IMU		7
			T81-52 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004		
T81-52A	J26-L4	A 181R	COMPUTER 800 PPS CLT OF PHASE SYNC		152
T81-52A	T81-19A	A 182E	COMPUTER 800 PPS CLT OF PHASE SYNC		152
T81-52B	J26-P4	A 181Y	COMPUTER 800 PPS IN PHASE SYNC		151
T81-52B	T81-19C	A 183E	COMPUTER 800 PPS IN PHASE SYNC		151
T81-52C	T81-52D		INTERNAL BUS		7
T81-52C	J26-L3	A 181L	COMPUTER 800 PPS SYNC RETURN		7
T81-52C	SHLD A182	A 182A	COMPUTER 800 PPS SYNC RETURN		7
T81-52D			SPARE (COMPUTER 800 PPS SYNC RETURN)		7
T81-52D	T81-52C		INTERNAL BUS		7
T81-52C	SHLD A183	A 183A	COMPUTER 800 PPS SYNC RETURN		7
			T81-53 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-53A	T81-53B		INTERNAL BUS		345
T81-53A	J17-P*	A 187R	800 CPS 28V 1 PCT HI OPTICS		345
T81-53A	J19-C	A 190R	800 CPS 28V 1 PCT HI OPTICS		345
T81-53B	T81-53A		INTERNAL BUS		345
T81-53B	T81-53C		INTERNAL BUS		345
T81-53B	J16-MM	A 188R	800 CPS 28V 1 PCT HI OPTICS		345
T81-53B	J31-H*	A 191R	800 CPS 28V 1 PCT HI OPTICS		345
T81-53C	T81-53B		INTERNAL BUS		345
T81-53C	T81-53D		INTERNAL BUS		345
T81-53C	J18-C	A 189R	800 CPS 28V 1 PCT HI OPTICS		345
T81-53C	J32-N*	A 192R	800 CPS 28V 1 PCT HI OPTICS		345

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	T81-53		8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-53D	T81-53C		INTERNAL BUS		345
T81-53D	T81-54D	A 196	800 CPS 28V 1 PCT HI OPTICS		345
T81-53D	J26-P5	A 198R	800 CPS 28V 1 PCT HI OPTICS		345
			T81-54 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-54A			SPARE (800 CPS 28V 1 PCT HI OPTICS)		345
T81-54A			SPARE (800 CPS 28V 1 PCT HI OPTICS)		345
T81-54A	T81-54B		INTERNAL BUS		345
T81-54B	T81-54A		INTERNAL BUS		345
T81-54B	T81-54C		INTERNAL BUS		345
T81-54B	J29-T6	A 194R	800 CPS 28V 1 PCT HI OPTICS		345
T81-54B	J3C-G6	A 195R	800 CPS 28V 1 PCT HI OPTICS		345
T81-54C			SPARE (800 CPS 28V 1 PCT HI OPTICS)		345
T81-54C	T81-54B		INTERNAL BUS		345
T81-54C	T81-54D		INTERNAL BUS		345
T81-54C	J28-T1	A 193R	800 CPS 28V 1 PCT HI OPTICS		345
T81-54D	T81-54C		INTERNAL BUS		345
T81-54D	T81-53D	A 196	800 CPS 28V 1 PCT HI OPTICS		345
T81-54D	J26-P5	A 199R	800 CPS 28V 1 PCT HI OPTICS		345
			T81-55 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003		
T81-55A			SPARE (800 CPS 28V 1 PCT LO OPTICS)		346
T81-55A			SPARE (800 CPS 28V 1 PCT LO OPTICS)		346
T81-55A	T81-55B		INTERNAL BUS		346
T81-55B	T81-55A		INTERNAL BUS		346
T81-55B	T81-55C		INTERNAL BUS		346

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1-55	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB1-55B	J29-S6	A 194L	800 CPS 28V 1 PCT LC CPTICS		346
TB1-55B	J30-C5	A 195L	800 CPS 28V 1 PCT LC CPTICS		346
TB1-55C			SPARE (800 CPS 28V 1 PCT LC CPTICS)		346
TB1-55C	TB1-55B		INTERNAL BUS		346
TB1-55C	TB1-55D		INTERNAL BUS		346
TB1-55C	J28-S1	A 193L	800 CPS 28V 1 PCT LC CPTICS		346
TB1-55C	TB1-55C		INTERNAL BUS		346
TB1-55C	TB2-1D	A 197	800 CPS 28V 1 PCT LC CPTICS		346
TB1-55D	J26-A5	A 198L	800 CPS 28V 1 PCT LC CPTICS		346
	TB2- 1 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-1A	TB2-1B		INTERNAL BUS		346
TB2-1A	J17-C*	A 187L	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1A	J19-E	A 190L	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1B	TB2-1A		INTERNAL BUS		346
TB2-1B	TB2-1C		INTERNAL BUS		346
TB2-1B	J16-AA	A 188L	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1B	J31-L*	A 191L	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1C	TB2-1B		INTERNAL BUS		346
TB2-1C	TB2-1D		INTERNAL BUS		346
TB2-1C	J18-E	A 189L	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1C	J32-P*	A 192L	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1D	TB2-1C		INTERNAL BUS		346
TB2-1C	TB1-55D	A 197	800 CPS 28V 1 PCT LC CPTICS		346
TB2-1D	J26-A5	A 198L	800 CPS 28V 1 PCT LC CPTICS		346

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2- 2 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-2A	TB2-2B		INTERNAL BUS		342
TB2-2A	J16-FF	A 202R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
TB2-2A	J31-J*	A 206R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
TB2-2B	TB2-2A		INTERNAL BUS		342
TB2-2B	TB2-2C		INTERNAL BUS		342
TB2-2B	J18-F	A 203R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
TB2-2B	J32-C*	A 207R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
TB2-2C	TB2-2B		INTERNAL BUS		342
TB2-2C	TB2-2D		INTERNAL BUS		342
TB2-2C	J19-F	A 204R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
TB2-2C	J26-P6	A 208R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
TB2-2C			SPARE (800 CPS 28V 5 PCT L-90 HI CPTICS)		342
TB2-2D	TB2-2C		INTERNAL BUS		342
TB2-2D	J30-P6	A 205R	800 CPS 28V 5 PCT L-90 HI CPTICS		342
	TB2- 3 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-3A	TB2-3B		INTERNAL BUS		343
TB2-3A	J16-CC	A 207L	800 CPS 28V 5 PCT L-90 LC CPTICS		343
TB2-3A	J31-K*	A 206L	800 CPS 28V 5 PCT L-90 LC CPTICS		343
TB2-3B	TB2-3A		INTERNAL BUS		343
TB2-3B	TB2-3C		INTERNAL BUS		343
TB2-3B	J18-G	A 203L	800 CPS 28V 5 PCT L-90 LC CPTICS		343
TB2-3B	J32-R*	A 207L	800 CPS 28V 5 PCT L-90 LC CPTICS		343
TB2-3C	TB2-3B		INTERNAL BUS		343
TB2-3C	TB2-3D		INTERNAL BUS		343
TB2-3C	J19-G	A 204L	800 CPS 28V 5 PCT L-90 LC CPTICS		343
TB2-3C	J26-A6	A 208L	800 CPS 28V 5 PCT L-90 LC CPTICS		343
TB2-3C			SPARE (800 CPS 28V 5 PCT L-90 LC CPTICS)		343
TB2-3D	TB2-3C		INTERNAL BUS		343

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-3D	J30-H5	A 205L	800 CPS 28V 5 PCT L-90 LC OPTICS		343
	TB2-4 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-4A	TB2-4B		INTERNAL BUS		
TB2-4A			SPARE		
TB2-4A			SPARE		
TB2-4B	TB2-4A		INTERNAL BUS		
TB2-4B			SPARE		
TB2-4B			SPARE		
TB2-4C	TB2-4D		INTERNAL BUS		
TB2-4C			SPARE		
TB2-4C			SPARE		
TB2-4C	TB2-4C		INTERNAL BUS		
TB2-4D			SPARE		
TB2-4D			SPARE		
	TB2- 5 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-5A	TB2-5B		INTERNAL BUS		162
TB2-5A	J27-G4	A 698R	SHAFT ENCODER + DELTA THETA OUTPUT		162
TB2-5A	J7-K1	A 700E	SHAFT ENCODER + DELTA THETA OUTPUT		162
TB2-5B			SPARE (SHAFT ENCODER + DELTA THETA OUTPUT)		162
TB2-5B	TB2-5A		INTERNAL BUS		162
TB2-5B	J28-C4	A 699R	SHAFT ENCODER + DELTA THETA OUTPUT		162
TB2-5C	TB2-5D		INTERNAL BUS		159
TB2-5C	J27-K4	A 698L	SHAFT ENCODER - DELTA THETA OUTPUT		159
TB2-5C	J7-H1	A 701E	SHAFT ENCODER - DELTA THETA OUTPUT		159

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 5	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-5C			SPARE (SHAFT ENCODER - DELTA THETA OUTPUT)		159
TB2-5C	TB2-5C		INTERNAL BUS		159
TB2-5C	J28-K4	A 699L	SHAFT ENCODER - DELTA THETA OUTPUT		159
	TB2- 6 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-6A	TB2-6B		INTERNAL BUS		160
TB2-6A	J27-H4	A 698Y	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6A	SHLD A700	A 700B	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6B	TB2-6A		INTERNAL BUS		160
TB2-6B	J28-H4	A 699Y	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6B	SHLD A701	A 701B	SHAFT ENCODER DELTA THETA OUTPUT COM		160
TB2-6C	TB2-6D		INTERNAL BUS		158
TB2-6C	J27-H6	A 702Y	TRUN ENCODER DELTA THETA OUTPUT COM		158
TB2-6C	SHLD A704	A 704B	TRUN ENCODER DELTA THETA OUTPUT COM		158
TB2-6D	TB2-6C		INTERNAL BUS		158
TB2-6C	J28-H6	A 703Y	TRUN ENCODER DELTA THETA OUTPUT COM		158
TB2-6C	SHLD A705	A 705B	TRUN ENCODER DELTA THETA OUTPUT COM		158
	TB2- 7 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-7A	TB2-7B		INTERNAL BUS		157
TB2-7A	J27-G6	A 702R	TRUN ENCODER + DELTA THETA OUTPUT		157
TB2-7A	J7-G1	A 704E	TRUN ENCODER + DELTA THETA OUTPUT		157
TB2-7B			SPARE (TRUN ENCODER + DELTA THETA OUTPUT)		157
TB2-7B	TB2-7A		INTERNAL BUS		157
TB2-7B	J28-G6	A 703R	TRUN ENCODER + DELTA THETA OUTPUT		157
TB2-7C	TB2-7C		INTERNAL BUS		161

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 7	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-7C	J27-K6	A 7C2L	TRUN ENCCDER - DELTA THETA OUTPUT		161
TB2-7C	J7-J1	A 7C5E	TRUN ENCCDER - DELTA THETA OUTPUT		161
TB2-7C			SPARE (TRUN ENCODER - DELTA THETA OUTPUT)		161
TB2-7C	TB2-7C		INTERNAL BUS		161
TB2-7C	J28-K6	A 7C3L	TRUN ENCCDER - DELTA THETA OUTPUT		161
TB2- 8	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
TB2-8A	J5-S	A 753R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
TB2-8A	J27-R4	A 755R	800 CPS 28V 5 PCT L-90 DEG HI IMU		113
TB2-8B	J5-T	A 753L	800 CPS 28V 5 PCT L-90 DEG LC IMU		60
TB2-8B	J2-G*	A 754L	800 CPS 28V 5 PCT L-90 DEG LC IMU		60
TB2-8C			SPARE		
TB2-8C			SPARE		
TB2-8C			SPARE		
TB2-8C			SPARE		
TB2- 9	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-9A	TB2-9B		INTERNAL BUS		454
TB2-9A	J27-T5	A 767R	+ 32 VCC PIP		454
TB2-9A	J24-S4	A 769R	+ 32 VCC PIP		454
TB2-9B	J13-D	A 830R	~~SPARE~~ +32 VDC PIP		454
TB2-9B	TB2-9A		INTERNAL BUS		454
TB2-9B	J23-S4	A 768R	+ 32 VCC PIP		454
TB2-9C	TB2-9D		INTERNAL BUS		453
TB2-9C	J27-L5	A 767L	+ 120 VCC PIP		453
TB2-9C	J24-S1	A 769L	+ 120 VCC PIP		453

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2- 9	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-9C	J13-F	A 830L	~~SPARE~~ +120 VCC PIP		453
TB2-9C	TB2-9C		INTERNAL BUS		453
TB2-9C	J23-S2	A 768L	+ 120 VCC PIP		453
TB2-10	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-10A	TB2-10B		INTERNAL BUS		452
TB2-10A	J27-L4	A 767Y	+ 32, +120 VCC RET PIP		452
TB2-10A	J24-R1	A 769Y	+ 32, +120 VCC RET PIP		452
TB2-10B	J13-E	A 830Y	~~SPARE~~ +32,+120 VCC RET PIP		452
TB2-10B	TB2-10A		INTERNAL BUS		452
TB2-10B	J23-R2	A 768Y	+ 32, +120 VCC RET PIP		452
TB2-10C	TB2-10D		INTERNAL BUS		59
TB2-10C	J2-F*	A 754R	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
TB2-10C			SPARE (800 CPS 28V 5 PCT 6-90 DEG HI IMU)		59
TB2-10C	J27-P4	A 755L	800 CPS 28V 5 PCT L-90 DEG HI IMU		59
TB2-10D			SPARE (800 CPS 28V 5 PCT L-9C DEG HI IMU)		59
TB2-10D	TB2-10C		INTERNAL BUS		59
TB2-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-C04				
TB2-11A	J21-P1	A 455R	32CC CPS 20 V HI		428
TB2-11A	J27-N2	A 456R	3200 CPS 20 V HI		428
TB2-11B	J21-N2	A 455L	3200 CPS 20 V LO		427
TB2-11B	J27-R2	A 456Y	3200 CPS 20 V LO		427
TB2-11C	TB2-11D		INTERNAL BUS		7
TB2-11C	J27-F2	A 454	0 VLC IMU		7
TB2-11C	J21-N1	A 455Y	3200 CPS 20 V CT		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004				
TB2-11D	TB2-12A	A 457	0 VCC IMU		7
TB2-11D	TB2-11C		INTERNAL BUS		7
TB2-11C	J27-P2	A 456L	3200 CPS 20 V CT		7
TB2-12	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-12A			SPARE (0 VCC IMU)		7
TB2-12A	TB2-12B		INTERNAL BUS		7
TB2-12A	TB2-11D	A 457	0 VLC IMU		7
TB2-12B	TB2-12A		INTERNAL BUS		7
TB2-12B	TB2-12C		INTERNAL BUS		7
TB2-12B	J27-S1	A 459	0 VCC IMU		7
TB2-12B	TB3-18L	A 462	0 VCC IMU		7
TB2-12C			SPARE (0 VCC IMU)		7
TB2-12C	TB2-12B		INTERNAL BUS		7
TB2-12C	TB2-12D		INTERNAL BUS		7
TB2-12C	TB3-18H	A 463	0 VLC IMU		7
TB2-12D			SPARE (0 VCC IMU)		7
TB2-12C	TB2-12C		INTERNAL BUS		7
TB2-12C	J27-S3	A 461	0 VCC IMU		7
TB2-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-13A			SPARE		
TB2-13A			SPARE		
TB2-13A	TB2-13B		INTERNAL BUS		
TB2-13B			SPARE		
TB2-13B			SPARE		

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-13B	TB2-13A		INTERNAL BUS		
TB2-13C			SPARE		
TB2-13C			SPARE		
TB2-13C	TB2-13D		INTERNAL BUS		
TB2-13D			SPARE		
TB2-13D			SPARE		
TB2-13C	TB2-13C		INTERNAL BUS		
TB2-14	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-14A			SPARE (SXT SHAFT 16X RSVR S4)		388
TB2-14A	TB2-14B		INTERNAL BUS		388
TB2-14A	SHLD A772	A 772B	SXT SHAFT 16X RSVR S4		388
TB2-14B	TB2-14A		INTERNAL BUS		388
TB2-14B	TB2-14C		INTERNAL BUS		388
TB2-14B	J32-K	A 772R	SXT SHAFT 16 X RSVR S4		388
TB2-14B	J28-A2	A 774R	SXT SHAFT 16 X RSVR S4		388
TB2-14C			SPARE (SXT SHAFT 16X RSVR S4)		388
TB2-14C	TB2-14B		INTERNAL BUS		388
TB2-14C	TB2-14D		INTERNAL BUS		388
TB2-14C	SHLD A773	A 773B	SXT SHAFT 16X RSVR S4		388
TB2-14D			SPARE (SXT SHAFT 16X RSVR S4)		388
TB2-14D	TB2-14C		INTERNAL BUS		388
TB2-14C	J18-J*	A 773R	SXT SHAFT 16 X RSVR S4		388

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-15	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002			
T82-15A	T82-15B		INTERNAL BUS		387
T82-15A	J32-L	A 772L	SXT SHAFT 16 X RSVR S2		387
T82-15A	J28-A3	A 774L	SXT SHAFT 16 X RSVR S2		387
T82-15B			SPARE (SXT SHAFT 16X RSVR S2)		387
T82-15B	T82-15A		INTERNAL BUS		387
T82-15[illegible]	J18-I*	A 773L	SXT SHAFT 16 X RSVR S2		387
T82-15C			SPARE		
T82-15C			SPARE		
T82-15C	T82-15D		INTERNAL BUS		
T82-15D			SPARE		
T82-15D			SPARE		
T82-15D	T82-15C		INTERNAL BUS		
	T82-16	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001			
T82-16A	J32-E	A 777R	SXT SHAFT MCT PHASE 2		486
T82-16A	J28-S5	A 778R	SXT SHAFT MCT PHASE 2		486
T82-16B	J32-F	A 777L	0 VDC OPTICS		7
T82-16B	T82-31A	A 411	0 VDC OPTICS		7
T82-16C			SPARE		
T82-16C			SPARE		
T82-16C	J32-C	A 777Y	SXT SHAFT MCT PHASE 1		489
T82-16C	J28-T5	A 778L	SXT SHAFT MCT PHASE 1		489

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-17	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004			
T82-17A	J28-P3	A 780	SXT SHAFT MCA INPUT BUFFERED		324
T82-17A	J16-E	A 782R	SXT SHAFT MCA INPUT BUFFERED		324
T82-17B	J28-P4	A 781	SXT SHAFT TACH FDBK BUFFERED		326
T82-17B	J16-J	A 783R	SXT SHAFT TACH FDBK BUFFERED		326
T82-17C			SPARE (0 VDC OPTICS)		7
T82-17C	T82-17D		INTERNAL BUS		7
T82-17C	J16-F	A 782L	0 VDC OPTICS		7
T82-17C	T82-17C		INTERNAL BUS		7
T82-17D	J16-K	A 783L	0 VDC OPTICS		7
T82-17D	T82-18C	A 819	0 VDC OPTICS		7
	T82-18	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004			
T82-18A	J28-P1	A 785	SXT [illegible]UN MCA INPUT BUFFERED		337
T82-18A	J16-J*	A 787R	SXT TRUN MCA INPUT BUFFERED		337
T82-18B	J28-P2	A 786	SXT TR[illegible]N TACH FDBK BUFFERED		336
T82-18B	J16-C*	A 788R	SXT TRUN TACH FDBK BUFFERED		336
T82-18C	T82-18D		INTERNAL BUS		7
T82-18C	J16-K*	A 787L	0 VDC OPTICS		7
T82-18C	T82-17D	A 819	0 VDC OPTICS		7
T82-18D	T82-18C		INTERNAL BUS		7
T82-18D	T82-19D	A 784	0 VDC OPTICS		7
T82-18D	J16-H*	A 788L	0 VDC OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-19	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004			
T82-19A	J28-P5	A 789	SCT SHAFT 1 X ERROR SIG BUFFERED		334
T82-19A	J16-C*	A 791R	SCT SHAFT 1 X ERROR SIG BUFFERED		334
T82-19B	J28-P6	A 790	SCT SHAFT TACH FDBK BUFFERED		323
T82-19B	J16-C	A 792R	SCT SHAFT TACH FDBK BUFFERED		323
T82-19C	T82-19D		INTERNAL BUS		7
T82-19C	T82-30A	A 408	0 VDC OPTICS		7
T82-19C	J16-C*	A 791L	0 VDC OPTICS		7
T82-19D	T82-19C		INTERNAL BUS		7
T82-19D	T82-18D	A 784	0 VDC OPTICS		7
T82-19D	J16-C	A 792L	0 VDC OPTICS		7
	T82-20	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003			
T82-20A			SPARE (SXT TRUN 64X RSVR S2)		417
T82-20A	T82-20B		INTERNAL BUS		417
T82-20A	SHLD A793	A 793B	SXT TRUN 64 X RSVR S2		417
T82-20B	T82-20A		INTERNAL BUS		417
T82-20B	T82-20C		INTERNAL BUS		417
T82-20B	J32-F*	A 793R	SXT TRUN 64 X RSVR S2		417
T82-20B	J28-C1	A 795R	SXT TRUN 64 X RSVR S2		417
T82-20C			SPARE (SXT TRUN 64X RSVR S2)		417
T82-20C	T82-20B		INTERNAL BUS		417
T82-20C	T82-20D		INTERNAL BUS		417
T82-20C	SHLD A794	A 794A	SXT TRUN 64 X RSVR S2		417
T82-20C			SPARE (SXT TRUN 64X RSVR S2)		417
T82-20C	T82-20C		INTERNAL BUS		417
T82-20D	J19-P*	A 794R	SXT TRUN 64 X RSVR S2		417

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-21	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002			
T82-21A	T82-21B		INTERNAL BUS		418
T82-21A	J32-E*	A 793L	SXT TRUN 64 X RSVR S4		418
T82-21A	J28-C2	A 795L	SXT TRUN 64 X RSVR S4		418
T82-21B			SPARE (SXT TRUN 64X RSVR S4)		418
T82-21B	T82-21A		INTERNAL BUS		418
T82-21B	J19-C*	A 794L	SXT TRUN 64 X RSVR S4		418
T82-21C			SPARE		
T82-21C			SPARE		
T82-21C	T82-21D		INTERNAL BUS		
T82-21D			SPARE		
T82-21D			SPARE		
T82-21D	T82-21C		INTERNAL BUS		
	T82-22	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001			
T82-22A	J28-S6	A 798R	SXT TRUN MCT PHASE 2		487
T82-22A	J32-V	A 799R	SXT TRUN MCT PHASE 2		487
T82-22B	J32-L	A 799L	0 VDC OPTICS		7
T82-22B	T82-31C	A 412	0 VDC OPTICS		7
T82-22C			SPARE		
T82-22C			SPARE		
T82-22D	J28-T6	A 798L	SXT TRUN MCT PHASE 1		490
T82-22D	J32-L	A 799Y	SXT TRUN MCT PHASE 1		490

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-23 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-23A	J28-S4	A 8C2R	SCT SHAFT MCT PHASE 2		485
TB2-23A	J31-L	A 8C4R	SCT SHAFT MCT PHASE 2		485
TB2-23B	J31-V	A 8C4L	0 VDC OPTICS		7
TB2-23B	TB2-30D	A 413	0 VDC OPTICS		7
TB2-23C			SPARE		
TB2-23C			SPARE		
TB2-23C	J28-T4	A 8C2L	SCT SHAFT MCT PHASE 1		488
TB2-23D	J31-T	A 8C4Y	SCT SHAFT MCT PHASE 1		488
	TB2-24 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-24A	TB2-24B		INTERNAL BUS		329
TB2-24A	J31-P*	A 386R	TRACKER X DRIVE BUFFERED HI		329
TB2-24A	J28-C7	A 388R	TRACKER X DRIVE BUFFERED HI		329
TB2-24B			SPARE (TRACKER X DRIVE BUFFERED HI)		329
TB2-24B	TB2-24A		INTERNAL BUS		329
TB2-24B	J16-R	A 387R	TRACKER X DRIVE BUFFERED HI		329
TB2-24C	TB2-24D		INTERNAL BUS		330
TB2-24C	J31-Y*	A 389R	TRACKER Y DRIVE BUFFERED HI		330
TB2-24C	J28-C8	A 391R	TRACKER Y DRIVE BUFFERED HI		330
TB2-24C			SPARE (TRACKER Y DRIVE BUFFERED HI)		330
TB2-24C	TB2-24C		INTERNAL BUS		330
TB2-24C	J16-T	A 39CR	TRACKER Y DRIVE BUFFERED HI		330

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-25 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-25A			SPARE (0 VDC)		7
TB2-25A	TB2-25B		INTERNAL BUS		7
TB2-25A	TB2-26D	A 395	0V DC OPTICS		7
TB2-25B			SPARE (0 VDC)		7
TB2-25B	TB2-25A		INTERNAL BUS		7
TB2-25B	TB2-25C		INTERNAL BUS		7
TB2-25B	J16-U	A 390L	TRACKER Y DRIVE BUFFERED LO		7
TB2-25C			SPARE (0 VDC)		7
TB2-25C	TB2-25B		INTERNAL BUS		7
TB2-25C	TB2-25C		INTERNAL BUS		7
TB2-25C	J31-E8	A 392L	TRACKER PREAMP OUTPUT BUFF LO		7
TB2-25D	TB2-25C		INTERNAL BUS		7
TB2-25D	J16-M	A 393L	TRACKER PREAMP OUTPUT BUFF LO		7
TB2-25D	TB3-17B	A 396	0V DC OPTICS		7
	TB2-26 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-26A	TB2-26B		INTERNAL BUS		7
TB2-26A	J31-C*	A 386L	TRACKER X DRIVE BUFFERED LO		7
TB2-26A	J28-C7	A 388L	TRACKER X DRIVE BUFFERED LO		7
TB2-26B	TB2-26A		INTERNAL BUS		7
TB2-26B	TB2-26C		INTERNAL BUS		7
TB2-26B	J16-S	A 387L	TRACKER X DRIVE BUFFERED LO		7
TB2-26B	J28-C8	A 391L	TRACKER Y DRIVE BUFFERED LO		7
TB2-26C	TB2-26B		INTERNAL BUS		7
TB2-26C	TB2-26C		INTERNAL BUS		7
TB2-26C	J31-Z*	A 389L	TRACKER Y DRIVE BUFFERED LO		7
TB2-26C	J28-C9	A 394L	TRACKER PREAMP OUTPUT BUFF LO		7
TB2-26D			SPARE (0 VDC)		7
TB2-26D	TB2-26C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB2-26 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
TB2-26D	TB2-25A	A 395	0V DC OPTICS		7
	TB2-27 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-27A	TB2-27B		INTERNAL BUS		327
TB2-27A	J31-AA	A 392R	TRACKER PREAMP OUTPUT BUFF HI		327
TB2-27A	J28-C9	A 394R	TRACKER PREAMP OUTPUT BUFF HI		327
TB2-27B			SPARE (TRACKER PREAMP OUTPUT BUFF HI)		327
TB2-27B	TB2-27A		INTERNAL BUS		327
TB2-27B	J16-L	A 393R	TRACKER PREAMP OUTPUT BUFF HI		327
TB2-27C			SPARE		
TB2-27C			SPARE		
TB2-27C	TB2-27D		INTERNAL BUS		
TB2-27C			SPARE		
TB2-27C			SPARE		
TB2-27C	TB2-27C		INTERNAL BUS		
	TB2-28 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004				
TB2-28A	J6-E1	A 397E	TRUN + DELTA THETA CMD		144
TB2-28A	J28-G5	A 399R	TRUN + DELTA THETA CMD		144
TB2-28B	J6-F1	A 398E	TRUN - DELTA THETA CMD		146
TB2-28B	J28-K5	A 399Y	TRUN - DELTA THETA CMD		146
TB2-28C	TB2-28D		INTERNAL BUS		145
TB2-28C	SHLD A397	A 397B	TRUN DELTA THETA CMD COMMON		145
TB2-28C	J28-K5	A 399L	TRUN DELTA THETA CMD COMMON		145
TB2-28C			SPARE (TRUNK DELTA THETA CMD COMMON)		145
TB2-28D	TB2-28C		INTERNAL BUS		145

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	TB2-28 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-004				
TB2-28D	SHLD A398	A 398B	TRUN DELTA THETA CMD COMMON		145
	TB2-29 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-004				
TB2-29A	J6-C1	A 400E	SHAFT + DELTA THETA CMD		141
TB2-29A	J28-G3	A 4C2R	SHAFT + DELTA THETA CMD		141
TB2-29B	J6-D1	A 4C1E	SHAFT - DELTA THETA CMD		143
TB2-29B	J28-K3	A 4C2Y	SHAFT - DELTA THETA CMD		143
TB2-29C	TB2-29D		INTERNAL BUS		142
TB2-29C	SHLD A400	A 4C0B	SHAFT DELTA THETA CMD COMMON		142
TB2-29C	J28-K3	A 4C2L	SHAFT DELTA THETA CMD COMMON		142
TB2-29D			SPARE (SHAFT DELTA THETA CMD COMMON)		142
TB2-29D	TB2-29C		INTERNAL BUS		142
TB2-29D	SHLD A401	A 401B	SHAFT DELTA THETA CMD COMMON		142
	TB2-30 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-30A	TB2-30B		INTERNAL BUS		7
TB2-30A	TB2-19C	A 408	0 VDC OPTICS		7
TB2-30A	J28-L6	A 4C9	0 VDC OPTICS		7
TB2-30B	TB2-30A		INTERNAL BUS		7
TB2-30B	TB3-17C	A 410	0 VDC OPTICS		7
TB2-30B	TB3-17C	A 419	0 VDC OPTICS		7
TB2-30C	TB2-30D		INTERNAL BUS		7
TB2-30C	J28-R4	A 414	0 VDC OPTICS		7
TB2-30C	TB3-17G	A 420	0 VDC OPTICS		7
TB2-30D			SPARE (0 VDC OPTICS)		7
TB2-30D	TB2-30C		INTERNAL BUS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-30	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-30D	TB2-23B	A 413	0 VDC OPTICS		7
TB2-31	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-31A	TB2-31B		INTERNAL BUS		7
TB2-31A	TB2-16B	A 411	0 VDC OPTICS		7
TB2-31A	J28-R5	A 415	0 VDC OPTICS		7
TB2-31B			SPARE (0 VDC OPTICS)		7
TB2-31B	TB2-31A		INTERNAL BUS		7
TB2-31B	TB3-17H	A 421	0 VDC OPTICS		7
TB2-31C	TB2-31D		INTERNAL BUS		7
TB2-31C	TB2-22B	A 412	0 VDC OPTICS		7
TB2-31C	J28-R6	A 416	0 VDC OPTICS		7
TB2-31C	TB2-31C		INTERNAL BUS		7
TB2-31C	TB3-17F	A 418	0 VDC OPTICS		7
TB2-31D	TB3-17F	A 422	0 VDC OPTICS		7
TB2-32	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
TB2-32A	J29-M1	A 239	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
TB2-32A	J16-E*	A 245R	CDU TRUN 16 X RSVR ERROR SIG BUFF		335
TB2-32B	J29-M2	A 240	TRUN CDU TACH FDBK BUFFERED		339
TB2-32B	J16-P*	A 246R	TRUN CDU TACH FDBK BUFF		339
TB2-32C	J29-M3	A 241	SHAFT CDU 16 X ERROR SIG BUFF		325
TB2-32C	J16-G	A 247R	SHAFT CDU 16 X ERROR SIG BUFF		325
TB2-32C			SPARE		
TB2-32D			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2-33	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-33A	TB2-33B		INTERNAL BUS		7
TB2-33A	J16-F*	A 245L	0 VDC OPTICS		7
TB2-33A	J16-C*	A 246L	0 VDC OPTICS		7
TB2-33B	TB2-33A		INTERNAL BUS		7
TB2-33B	TB2-33C		INTERNAL BUS		7
TB2-33B	J16-F	A 247L	0 VDC OPTICS		7
TB2-33B	J16-E*	A 248L	0 VDC OPTICS		7
TB2-33C	TB2-33B		INTERNAL BUS		7
TB2-33C	TB2-33D		INTERNAL BUS		7
TB2-33C	J16-S*	A 249L	0 VDC OPTICS		7
TB2-33C	TB2-35A	A 482	0 VDC OPTICS		7
TB2-33D			SPARE (0 VDC OPTICS)		7
TB2-33D	TB2-33C		INTERNAL BUS		7
TB2-33D	J16-N*	A 250L	0 VDC OPTICS		7
TB2-34	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-34A	J29-M4	A 242	SHAFT CDU TACH FDBK SIG BUFF		333
TB2-34A	J16-A*	A 249R	SHAFT CDU TACH FDBK SIG BUFF		333
TB2-34B	J29-M5	A 243	SCT TRUN 1 X ERROR SIG BUFF		340
TB2-34B	J16-R*	A 249R	SCT TRUN 1 X ERROR SIG BUFF		340
TB2-34C	J29-M6	A 244	SCT TRUN TACH FDBK BUFF		338
TB2-34C	J16-P*	A 250R	SCT TRUN TACH FDBK BUFF		338
TB2-34C			SPARE		
TB2-34D			SPARE		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2-35	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-35A	TB2-35B		INTERNAL BUS		7
TB2-35A	TB2-33C	A 482	0 VDC OPTICS		7
TB2-35A	TB3-17N	A 483	0 VDC OPTICS		7
TB2-35B	TB2-35A		INTERNAL BUS		7
TB2-35B	J29-L6	A 481	0 VDC OPTICS		7
TB2-35B	TB3-17P	A 484	0 VDC OPTICS		7
TB2-35C	TB2-35D		INTERNAL BUS		7
TB2-35C	TB2-37B	A 468	0 VDC OPTICS		7
TB2-35C	TB3-17Q	A 492	0 VDC OPTICS		7
TB2-35C	TB2-35C		INTERNAL BUS		7
TB2-35C	J29-R3	A 491	0 VDC OPTICS		7
TB2-35D	TB3-17P	A 493	0 VDC OPTICS		7
TB2-36	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
TB2-36A	TB2-36B		INTERNAL BUS		7
TB2-36A	TB2-38B	A 472	0 VDC OPTICS		7
TB2-36A	TB3-17R	A 486	0 VDC OPTICS		7
TB2-36B	TB2-36A		INTERNAL BUS		7
TB2-36B	J29-R1	A 485	0 VDC OPTICS		7
TB2-36B	TB3-17S	A 487	0 VDC OPTICS		7
TB2-36C	TB2-36D		INTERNAL BUS		7
TB2-36C	J29-R2	A 488	0 VDC OPTICS		7
TB2-36C	TB3-17R	A 489	0 VDC OPTICS		7
TB2-36D	TB2-36C		INTERNAL BUS		7
TB2-36D	TB2-39B	A 474	0 VDC OPTICS		7
TB2-36D	TB3-17S	A 490	0 VDC OPTICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
TB2-37	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
TB2-37A	J31-E	A 466R	SCT TRUN MOT PHASE 2		498
TB2-37A	J29-T3	A 467R	SCT TRUN MOT PHASE 2		498
TB2-37B	J31-F	A 466L	0 VDC OPTICS		7
TB2-37B	TB2-35C	A 468	0 VDC OPTICS		7
TB2-37C	J31-C	A 466Y	SCT TRUN MOT PHASE 1		497
TB2-37C	J29-S3	A 467L	SCT TRUN MOT PHASE 1		497
TB2-37C			SPARE		
TB2-37D			SPARE		
TB2-38	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
TB2-38A	J19-P*	A 470R	TRUN CDU MOT PHASE 2		411
TB2-38A	J29-T1	A 471R	TRUN CDU MOT PHASE 2		411
TB2-38B	J19-C*	~~A 470L 0 VDC OPTICS~~	A831 0 VDC OPTICS		7
TB2-38B	TB2-36A	A 472	0 VDC OPTICS		7
TB2-38C	J19-A*	A 470Y	TRUN CDU MOT PHASE 1		410
TB2-38C	J29-S1	A 471L	TRUN CDU MOT PHASE 1		410
TB2-38C	J19-U*	A 470L ~~SPARE~~	TRUN CDU MOT PHASE 1		513
TB2-38D	J29-N1	A 832 ~~SPARE~~	TRUN CDU MOT PHASE 1		513
TB2-39	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
TB2-39A	J18-P*	A 473R	SHAFT CDU MOT PHASE 2		392
TB2-39A	J29-T2	A 607R	SHAFT CDU MOT PHASE 2		392
TB2-39B	J18-C*	~~A 473L 0 VDC OPTICS~~	A833 0 VDC OPTICS		7
TB2-39B	TB2-36D	A 474	0 VDC OPTICS		7
TB2-39C	J18-N*	A 473Y	SHAFT CDU MOT PHASE 1		391
TB2-39C	J29-S2	A 607L	SHAFT CDU MOT PHASE 1		391

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-39	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-001				
TB2-39C	J18-Z	A473L	~~SPARE~~ SHAFT CDU MOT PHASE 1		514
TB2-39C	J29-N2	A834	~~SPARE~~ SHAFT CDU MOT PHASE 1		514
	TB2-40 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-40A	TB2-40B		INTERNAL BUS		
TB2-40A			SPARE		
TB2-40A			SPARE		
TB2-40B	TB2-40A		INTERNAL BUS		
TB2-40B			SPARE		
TB2-40B			SPARE		
TB2-40C	TB2-40D		INTERNAL BUS		
TB2-40C			SPARE		
TB2-40C			SPARE		
TB2-40C	TB2-40C		INTERNAL BUS		
TB2-40D			SPARE		
TB2-40D			SPARE		
	TB2-41 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-41A	TB2-41B		INTERNAL BUS		258
TB2-41A	J3C-P1	A 85	+28 VDC IMU		258
TB2-41A	TB1-1B	A 96	+28 VDC IMU		258
TB2-41B	TB2-41A		INTERNAL BUS		258
TB2-41B	TB2-41C		INTERNAL BUS		258
TB2-41B	J3C-P2	A 86	+28 VDC IMU		258
TB2-41B	J3D-N1	A 87	+28 VDC IMU		258
TB2-41C	TB2-41B		INTERNAL BUS		258

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-41	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-41C	TB2-41D		INTERNAL BUS		258
TB2-41C	J3C-N2	A 88	+28 VDC IMU		258
TB2-41C	TB1-17C	A 103	+28 VDC IMU		258
TB2-41D	TB2-41C		INTERNAL BUS		258
TB2-41C	J12-PP	A 95	+28 VDC IMU		258
TB2-41C	TB1-17B	A 102	+28 VDC IMU		258
	TB2-42 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-42A	TB2-42B		INTERNAL BUS		39
TB2-42A	TB1-1C	A 97	+28 VDC IMU		39
TB2-42A	J24-S6	A 112	+28 VDC IMU		39
TB2-42B	TB2-42A		INTERNAL BUS		39
TB2-42B	TB2-42C		INTERNAL BUS		39
TB2-42B	J22-S5	A 110	+28 VDC IMU		39
TB2-42B	J12-K	A 818	+28 VDC IMU		39
TB2-42C	TB2-42B		INTERNAL BUS		39
TB2-42C	TB2-42D		INTERNAL BUS		39
TB2-42C	J2-D	A 94	+28 VDC IMU		39
TB2-42C	J25-S2	A 113	+28 VDC IMU		39
TB2-42D			SPARE (+28 VDC IMU)		39
TB2-42C	TB2-42C		INTERNAL BUS		39
TB2-42D	TB2-43A	A 92	+28 VDC IMU		39

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-43 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB2-43A	TB2-43B		INTERNAL BUS		39
TB2-43A	TB2-42D	A 92	+28 VDC IMU		39
TB2-43A	J25-S6	A 114	+28 VDC IMU		39
TB2-43B	TH2-43A		INTERNAL BUS		39
TB2-43B	TB2-43C		INTERNAL BUS		39
TB2-43B	J3D-L1	A 89	+28 VDC IMU		39
TB2-43B	J24-S2	A 115	+28 VDC IMU		39
TB2-43C	TB2-43B		INTERNAL BUS		39
TB2-43C	TB2-43D		INTERNAL BUS		39
TB2-43C	J3C-L2	A 90	+28 VDC IMU		39
TB2-43C	J3-H*	A 93	+28 VDC IMU		39
TB2-43D			SPARE (+28 VCC IMU)		39
TB2-43C	TB2-43C		INTERNAL BUS		39
TB2-43C	J23-S6	A 111	+28 VDC IMU		39
	TB2-44 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-44A	TB2-44B		INTERNAL BUS		226
TB2-44A	J22-K4	A 268R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44A	J14-P*	A 271R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44B	TB2-44A		INTERNAL BUS		226
TB2-44B	J3C-L6	A 267R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44B	J12-P	A 272R	800 CPS 28V 5 PCT L-90 DEG HI IMU		226
TB2-44C	TB2-44D		INTERNAL BUS		227
TB2-44C	J22-K4	A 268L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
TB2-44C	J14-N*	A 271L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
TB2-44D	TB2-44C		INTERNAL BUS		227
TB2-44C	J3C-K5	A 267L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227
TB2-44D	J12-N	A 272L	800 CPS 28V 5 PCT L-90 DEG LC IMU		227

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB2-45 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-45A	TB2-45B		INTERNAL BUS		368
TB2-45A	J17-AA	A 274	+ 28 VCC CPTICS TRK PWR		368
TB2-45A	J3C-N4	A 275	+ 28 VCC CPTICS TRK PWR		368
TB2-45B	TB2-45A		INTERNAL BUS		368
TB2-45B	J31-CC	A 276	+ 28 VCC CPTICS TRK PWR		368
TB2-45B	J32-N*	A 277R	+ 28 VCC CPTICS TRK PWR		368
TB2-45C	TB2-45D		INTERNAL BUS		7
TB2-45C	J32-X*	A 277L	0 VCC CPTICS		7
TB2-45C	TB3-17A	A 278	0 VCC CPTICS		7
TB2-45C			SPARE (0 VCC CPTICS)		7
TB2-45D			SPARE (0 VCC CPTICS)		7
TB2-45D	TB2-45C		INTERNAL BUS		7
	TB2-46 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
TB2-46A	TB2-46B		INTERNAL BUS		468
TB2-46A	J28-T2	A 423	+ 28 VCC CPTICS		468
TB2-46A	J27-T6	A 425	+ 28 VCC CPTICS		468
TB2-46B	TB2-46A		INTERNAL BUS		468
TB2-46B	J29-T5	A 424	+ 28 VCC CPTICS		468
TB2-46B	J3D-N6	A 426	+ 28 VCC CPTICS		468
TB2-46C			SPARE		
TB2-46C			SPARE		
TB2-46C	TB2-46D		INTERNAL BUS		
TB2-46D			SPARE		
TB2-46D			SPARE		
TB2-46D	TB2-46C		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-47 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T82-47A	T82-47B		INTERNAL BUS		370
T82-47A	J17-CC	A 590	+ 28 VCC CPTICS		370
T82-47A	J30-P5	A 591	+ 28 VCC CPTICS		370
T82-47B	T82-47A		INTERNAL BUS		370
T82-47B	J26-S5	A 430	+ 28 VCC CPTICS		370
T82-47B	J22-S6	A 589	+ 28 VCC CPTICS		370
T82-47C	T82-47D		INTERNAL BUS		341
T82-47C	J26-S6	A 428	+ 28 VCC CPTICS		341
T82-47C	J3C-P6	A 429	+ 28 VCC CPTICS		341
T82-47D			SPARE (+28 VCC OPTICS)		341
T82-47D	T82-47C		INTERNAL BUS		341
T82-47C	J16-AA	A 427	+ 28 VCC CPTICS		341
	T82-48 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T82-48A	T82-48B		INTERNAL BUS		241
T82-48A	J27-T1	A 497	+ 28 VCC STBY		241
T82-48A	J3C-R3	A 499	+ 28 VCC STBY		241
T82-48B	T82-48A		INTERNAL BUS		241
T82-48B	J12-C*	A 498	+ 28 VCC STBY		241
T82-48B	J3C-R4	A 5C0	+ 28 VCC STBY		241
T82-48C			SPARE		
T82-48C			SPARE		
T82-48C	T82-48D		INTERNAL BUS		
T82-48C			SPARE		
T82-48C			SPARE		
T82-48D	T82-48C		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-49 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002				
T82-49A	T82-49B		INTERNAL BUS		3C1
T82-49A	J15-K	A 5C7	+ 28 VCC STBY BUS A		301
T82-49A	J3C-T3	A 51C	+ 28 VCC STBY BUS A		301
T82-49B	T82-49A		INTERNAL BUS		301
T82-49B	J15-K	A 5C8	+ 28 VCC STBY BUS A		301
T82-49B	J3C-S3	A 511	+ 28 VCC STBY BUS A		301
T82-49C	T82-49D		INTERNAL BUS		302
T82-49C	J15-L	A 512	+ 28 VCC STBY BUS B		302
T82-49C	J3C-T4	A 515	+ 28 VCC STBY BUS B		302
T82-49D	T82-49C		INTERNAL BUS		302
T82-49C	J15-L	A 513	+ 28 VCC STBY BUS B		302
T82-49D	J3C-S4	A 516	+ 28 VCC STBY BUS B		302
	T82-50 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T82-50A	T82-50B		INTERNAL BUS		303
T82-50A	J15-A	A 517	+ 28 VCC IMU BUS A		303
T82-50A	J3C-P1	A 52?	+ 28 VCC IMU BUS A		303
T82-50B	T82-50A		INTERNAL BUS		303
T82-50B	T82-50C		INTERNAL BUS		303
T82-50B	J15-A	A 518	+ 28 VCC IMU BUS A		303
T82-50B	J3C-P1	A 523	+ 28 VCC IMU BUS A		303
T82-50C	T82-50B		INTERNAL BUS		303
T82-5CC	T82-50D		INTERNAL BUS		303
T82-50C	J15-B	A 519	+ 28 VCC IMU BUS A		303
T82-50C	J3C-S1	A 524	+ 28 VCC IMU BUS A		303
T82-5CD	T82-50C		INTERNAL BUS		303
T82-5CD	J15-B	A 52C	+ 28 VCC IMU BUS A		303
T82-5CD	J3C-T1	A 525	+ 28 VCC IMU BUS A		303

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	T82-51 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T82-51A	T82-51B		INTERNAL BUS		304
T82-51A	J15-C	A 526	+ 28 VCC IMU BUS B		304
T82-51A	J3C-P2	A 531	+ 28 VCC IML BUS B		304
T82-51B	T82-51A		INTERNAL BUS		304
T82-51B	T82-51C		INTERNAL BUS		304
T82-51B	J15-C	A 527	+ 28 VCC IMU BUS B		304
T82-51B	J3C-R2	A 532	+ 28 VCC IMU BUS B		304
T82-51C	T82-51B		INTERNAL BUS		304
T82-51C	T82-51D		INTERNAL BUS		304
T82-51C	J15-C	A 528	+ 28 VCC IMU BUS B		304
T82-51C	J30-S2	A 533	+ 28 VCC IML BUS B		304
T82-51C	T82-51C		INTERNAL BUS		304
T82-51C	J15-C	A 529	+ 28 VCC IMU BUS B		304
T82-51C	J3C-T2	A 534	+ 28 VCC IMU BUS B		304
	T82-52 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T82-52A	T82-52B		INTERNAL BUS		423
T82-52A	J2C-A	A 546	+ 28 VCC CPTICS BUS A		423
T82-52A	J3C-R5	A 551	+ 28 VCC CPTICS BUS A		423
T82-52B	T82-52A		INTERNAL BUS		423
T82-52B	T82-52C		INTERNAL BUS		423
T82-52B	J2C-A	A 547	+ 28 VCC CPTICS BUS A		423
T82-52B	J3C-S5	A 552	+ 28 VCC CPTICS BUS A		423
T82-52C	T82-52B		INTERNAL BUS		423
T82-52C	T82-52D		INTERNAL BUS		423
T82-52C	J2C-B	A 548	+ 28 VCC CPTICS BUS A		423
T82-52C	J3C-T5	A 553	+ 28 VCC CPTICS BUS A		423
T82-52D			SPARE (+28 VCC CPTICS BUS A)		423
T82-52D	T82-52C		INTERNAL BUS		423

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.)	T82-52 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T82-52D	J2C-B	A 549	+ 28 VCC CPTICS BUS A		423
	T82-53 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T82-53A	T82-53B		INTERNAL BUS		424
T82-53A	J2C-C	A 554	+ 28 VCC CPTICS BUS B		424
T82-53A	J3C-R6	A 559	+ 28 VCC CPTICS BUS B		424
T82-53B	T82-53A		INTERNAL BUS		424
T82-53B	T82-53C		INTERNAL BUS		424
T82-53B	J2C-C	A 555	+ 28 VCC CPTICS BUS B		424
T82-53B	J3C-S6	A 560	+ 28 VCC CPTICS BUS B		424
T82-53C	T82-53B		INTERNAL BUS		424
T82-53C	T82-53D		INTERNAL BUS		424
T82-53C	J2C-C	A 556	+ 28 VCC CPTICS BUS B		424
T82-53C	J3C-T6	A 561	+ 28 VCC CPTICS BUS B		424
T82-53D			SPARE (+28 VCC CPTICS BUS B)		424
T82-53D	T82-53C		INTERNAL BUS		424
T82-53C	J2C-C	A 557	+ 28 VCC CPTICS BUS B		424
	T82-54 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T82-54A			SPARE (+28 VCC MDV)		124
T82-54A	T82-54B		INTERNAL BUS		124
T82-54A	J22-L1	A 594	+ 28 VCC MDV		124
T82-54B	T82-54A		INTERNAL BUS		124
T82-54B	T82-54C		INTERNAL BUS		124
T82-54B	J3C-P5	A 592	+ 28 VCC MDV		124
T82-54B	J27-R5	A 595	+ 28 VCC MDV		124

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB2-54	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-C03				
TB2-54C	TB2-54B		INTERNAL BUS		124
TB2-54C	TB2-54D		INTERNAL BUS		124
TB2-54C	J30-N5	A 593	+ 28 VDC MCV		124
TB2-54C	J12-D*	A 596	+ 28 VDC MCV		124
TB2-54C			SPARE (+28 VDC MCV)		124
TB2-54C	TB2-54C		INTERNAL BUS		124
TB2-54C	J5-K*	A 597	+ 28 VDC MCV		124
	TB2-55	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-C02			
TB2-55A	TB2-55B		INTERNAL BUS		499
TB2-55A	J32-MM	A 622R	STAR PRESENCE INPUT HI		499
TB2-55A	J30-A7	A 623R	STAR PRESENCE INPUT HI		499
TB2-55B			SPARE (STAR PRESENCE INPUT HI)		499
TB2-55B			SPARE (STAR PRESENCE INPUT HI)		499
TB2-55B	TB2-55A		INTERNAL BUS		499
TB2-55C	TB2-55D		INTERNAL BUS		150
TB2-55C	J32-NN	A 622L	STAR PRESENCE INPUT LO		150
TB2-55C	J3C-AB	A 623L	STAR PRESENCE INPUT LO		150
TB2-55C	TB2-55C		INTERNAL BUS		150
TB2-55C	SHLD A624	A 624A	STAR PRESENCE INPUT LO		150
TB2-55C	TB5-21	A 626	STAR PRESENCE INPUT LO		150

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB3- 1	16 CONTACT BUS BAR ASSY MADE FROM 1902305-0C1 INSULATOR AND 1901620 BUS BAR			
TB3-1A	J16-E	A 585	SHIELD GRD		7
TB3-1B	J4-E*	A 296	SHIELD GRD		7
TB3-1C	J19-B	A 578	SHIELD GRD		7
TB3-1D	J4-T	A 348	SHIELD GRD		7
TB3-1F	TB3-13B	A 671	SHIELD GRD		7
TB3-1G	J18-E	A 577	SHIELD GRD		7
TB3-1H	TB3-14B	A 672	SHIELD GRD		7
TB3-1K	J2C-G	A 581	SHIELD GRD		7
TB3-1L	TB3-15B	A 673	SHIELD GRD		7
TB3-1M	J2C-K	A 582	SHIELD GRD		7
TB3-1N	TB3-16B	A 674	SHIELD GRD		7
TB3-1P	J31-E	A 583	SHIELD GRD		7
TB3-1R	J32-E	A 584	SHIELD GRD		7
TB3-1S	J5-B	A 579	SHIELD GRD		7
TB3-1T	J15-G	A 580	SHIELD GRD		7
TB3-1V	E219	A 576	SHIELD GRD		7
	TB3- 2	16 CONTACT BUS BAR ASSY MADE FROM 1902305-0C1 INSULATOR AND 1901620 BUS BAR			
TB3-2A			SPARE (STRUCTURE GROUND)		7
TB3-2B			SPARE (STRUCTURE GROUND)		7
TB3-2C			SPARE (STRUCTURE GROUND)		7
TB3-2D			SPARE (STRUCTURE GROUND)		7
TB3-2F			SPARE (STRUCTURE GROUND)		7
TB3-2G			SPARE (STRUCTURE GROUND)		7
TB3-2H			SPARE (STRUCTURE GROUND)		7
TB3-2K			SPARE (STRUCTURE GROUND)		7
TB3-2L			SPARE (STRUCTURE GROUND)		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3- 2	16 CONTACT BUS BAR ASSY MADE FROM 1902305-001 INSULATOR AND 1901620 BUS BAR				
TB3-2M	E219	A 575	STRUCTURE GRD		7
TB3-2N			SPARE (STRUCTURE GROUND)		7
TB3-2P	J2-G	A 574	STRUCTURE GRD		7
TB3-2R			SPARE (STRUCTURE GROUND)		7
TB3-2S	J26-N4	A 573	STRUCTURE GRD		7
TB3-2T			SPARE (STRUCTURE GROUND)		7
TB3-2V	J25-K3	A 60	STRUCTURE GROUND		7
	TB3- 3	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-002			
TB3-3A			SPARE (Z GYRO ERROR SIG)		62
TB3-3A	TB3-3B		INTERNAL BUS		62
TB3-3A	J11-JJ	A 121R	Z GYRO ERROR SIGNAL		62
TB3-3B	TB3-3A		INTERNAL BUS		62
TB3-3B	J3-N	A 118N	Z GYRO ERROR SIGNAL		62
TB3-3B	J25-A1	A 119N	Z GYRO ERROR SIGNAL		62
TB3-3C			SPARE (X GYRO ERROR SIG)		61
TB3-3C	TB3-3D		INTERNAL BUS		61
TB3-3C	J11-EE	A 120R	X GYRO ERROR SIGNAL		61
TB3-3C	TB3-3C		INTERNAL BUS		61
TB3-3C	J3-A	A 116N	X GYRO ERROR SIGNAL		61
TB3-3D	J25-B1	A 117N	X GYRO ERROR SIGNAL		61

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB3- 4	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003			
TB3-4A	TB3-4B		INTERNAL BUS		7
TB3-4A	TB3-18H	A 123	0 VDC IMU		7
TB3-4A	TB3-5D	A 125	0 VDC IMU		7
TB3-4B			SPARE (0 VDC IMU)		7
TB3-4B	TB3-4A		INTERNAL BUS		7
TB3-4B	TB3-4C		INTERNAL BUS		7
TB3-4B	TB3-18Y	A 124	0 VDC IMU		7
TB3-4C			SPARE (0 VDC IMU)		7
TB3-4C	TB3-4B		INTERNAL BUS		7
TB3-4C	TB3-4D		INTERNAL BUS		7
TB3-4C	J11-FF	A 120L	0 VDC IMU		7
TB3-4C	TB3-4C		INTERNAL BUS		7
TB3-4C	J11-KK	A 121L	0 VDC IMU		7
TB3-4C	J25-R2	A 122	0 VDC IMU		7
	TB3- 5	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003			
TB3-5A	TB3-5B		INTERNAL BUS		7
TB3-5A	J11-PP	A 128R	0 VDC IMU		7
TB3-5A	J3-V	A 129K	0 VDC IMU		7
TB3-5B			SPARE (0 VDC IMU)		7
TB3-5B	TB3-5A		INTERNAL BUS		7
TB3-5B	TB3-5C		INTERNAL BUS		7
TB3-5B	J11-HH	A 127R	0 VDC IMU		7
TB3-5C			SPARE (0 VDC IMU)		7
TB3-5C			SPARE (0 VDC IMU)		7
TB3-5C	TB3-5B		INTERNAL BUS		7
TB3-5C	TB3-5D		INTERNAL BUS		7
TB3-5C	TB3-5C		INTERNAL BUS		7
TB3-5C	TB3-4A	A 125	0 VDC IMU		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) T83- 5	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T83-5D	J11-MM	A 126R	0 VDC IMU		7
T83- 6	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
T83-6A			SPARE		
T83-6A			SPARE		
T83-6B	J11-NN	A 128L	IMU CG ERROR SIGNAL		63
T83-6B	J3-C	A 129R	IMU CG ERROR SIGNAL		63
T83-6C	J11-GG	A 127L	IMU IG AND Y GYRO ERROR SIGNAL		76
T83-6C	J3-U	A 129L	IMU IG AND Y GYRO ERROR SIGNAL		76
T83-6D	J11-LL	A 126L	IMU MG ERROR SIGNAL		77
T83-6D	J3-W	A 129Y	IMU MG ERROR SIGNAL		77
T83- 7	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T83-7A			SPARE (AGC 0 VDC BUS)		7
T83-7A	T83-7R		INTERNAL BUS		7
T83-7A	J14-X*	A 586	AGC 0 VDC BUS		7
T83-7B			SPARE (AGC 0 VDC BUS)		7
T83-7B	T83-7A		INTERNAL BUS		7
T83-7B	T83-7C		INTERNAL BUS		7
T83-7B	E219	A 587	AGC 0 VDC BUS		7
T83-7C			SPARE (AGC 0 VDC BUS)		7
T83-7C	T83-7R		INTERNAL BUS		7
T83-7C	T83-7C		INTERNAL BUS		7
T83-7C	E219	A 588	AGC 0 VDC BUS		7
T83-7C			SPARE (AGC 0 VDC BUS)		7
T83-7D			SPARE (AGC 0 VDC BUS)		7

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) T83- 7	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T83-7D	T83-7C		INTERNAL BUS		7
T83- 8	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-001				
T83-8A	J17-J	A 6C1R	SXT SHAFT DRIVE ENABLE		349
T83-8A	J32-AA	A 6C3R	SXT SHAFT DRIVE ENABLE		349
T83-8B	J17-K	A 6C1L	SXT TRUN DRIVE ENABLE		350
T83-8B	J32-BB	A 6C3L	SXT TRUN DRIVE ENABLE		350
T83-8C	J17-L	A 6C4	SCT SHAFT DRIVE DISABLE		351
T83-8C	J31-h	A 6C5R	SCT SHAFT DRIVE DISABLE		351
T83-8D	J31-X	A 6C5L	0 VDC OPTICS		7
T83-8D	T83-9B	A 6C6	0 VDC OPTICS		7
T83- 9	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-002				
T83-9A	T83-9B		INTERNAL BUS		7
T83-9A	T83-17Z	A 602	0 VDC OPTICS		7
T83-9A	J32-CC	A 6C3Y	0 VDC OPTICS		7
T83-9B			SPARE (0 VDC OPTICS)		7
T83-9B	T83-9A		INTERNAL BUS		7
T83-9B	T83-8D	A 606	0 VDC OPTICS		7
T83-9C			SPARE		
T83-9C			SPARE		
T83-9C	T83-9D		INTERNAL BUS		
T83-9C			SPARE		
T83-9D			SPARE		
T83-9C	T83-9C		INTERNAL BUS		

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
T83-10	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T83-10A	T83-10B		INTERNAL BUS		347
T83-10A	J18-F	A 667R	400 CPS VAR ILLUM PWR		347
T83-10A	J19-F	A 668R	400 CPS VAR ILLUM PWR		347
T83-10B			SPARE (400 CPS VAR ILLUM PWR)		347
T83-10B	T83-10A		INTERNAL BUS		347
T83-10B	T83-10C		INTERNAL BUS		347
T83-10B	J17-E	A 665R	400 CPS VAR ILLUM PWR		347
T83-10C	T83-10B		INTERNAL BUS		347
T83-10C	T83-10D		INTERNAL BUS		347
T83-10C	J17-F	A 666R	400 CPS VAR ILLUM PWR		347
T83-10C	J31-P*	A 669R	400 CPS VAR ILLUM PWR		347
T83-10D			SPARE (400 CPS VAR ILLUM PWR)		347
T83-10C	T83-10C		INTERNAL BUS		347
T83-10D	J32-S*	A 670R	400 CPS VAR ILLUM PWR		347
T83-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T83-11A	T83-11B		INTERNAL BUS		348
T83-11A	J18-J	A 667L	400 CPS 6 V LO		348
T83-11A	J19-J	A 668L	400 CPS 6 V LO		348
T83-11B			SPARE (400 CPS 6V LO)		348
T83-11B	T83-11A		INTERNAL BUS		348
T83-11B	T83-11C		INTERNAL BUS		348
T83-11B	J17-E	A 665L	400 CPS 6 V LO		348
T83-11C	T83-11B		INTERNAL BUS		348
T83-11C	T83-11D		INTERNAL BUS		348
T83-11C	J17-G	A 666L	400 CPS 6 V LO		348
T83-11C	J31-h*	A 669L	400 CPS 6 V LO		348
T83-11D			SPARE (400 CPS 6V LO)		348
T83-11C	T83-11C		INTERNAL BUS		348

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FRCM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) T83-11	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
T83-11D	J32-T*	A 670L	400 CPS 6 V LO		348
T83-12	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T83-12A	T83-12B		INTERNAL BUS		8
T83-12A	E11	A 660	400 CPS SHIELD GRD		8
T83-12A	SHLD A668	A 668A	400 CPS SHIELD GRD		8
T83-12B	T83-12A		INTERNAL BUS		8
T83-12B	T83-12C		INTERNAL BUS		8
T83-12B	SHLD A666	A 666A	400 CPS SHIELD GRD		8
T83-12B	SHLD A669	A 669A	400 CPS SHIELD GRD		8
T83-12C	T83-12B		INTERNAL BUS		8
T83-12C	T83-12D		INTERNAL BUS		8
T83-12C	SHLD A665	A 665A	400 CPS SHIELD GRD		8
T83-12C	SHLD A667	A 667A	400 CPS SHIELD GRD		8
T83-12D	T83-12C		INTERNAL BUS		8
T83-12D	J17-F	A 659	400 CPS SHIELD GRD		8
T83-12D	SHLD A670	A 670A	400 CPS SHIELD GRD		8
T83-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1C15961-003				
T83-13A	T83-13B		INTERNAL BUS		7
T83-13A	E7	A 675	SHIELD GRD		7
T83-13A	E8	A 676	SHIELD GRD		7
T83-13B	T83-13A		INTERNAL BUS		7
T83-13B	T83-13C		INTERNAL BUS		7
T83-13B	T83-1F	A 671	SHIELD GRD		7
T83-13B	E12	A 677	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-13	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-13C	TB3-13B		INTERNAL BUS		7
TB3-13C	TB3-13D		INTERNAL BUS		7
TB3-13C	E13	A 678	SHIELD GRD		7
TB3-13C	E14	A 679	SHIELD GRD		7
TB3-13D	TB3-13C		INTERNAL BUS		7
TB3-13D	E15	A 680	SHIELD GRD		7
TB3-13D	E16	A 681	SHIELD GRD		7
	TB3-14 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-14A	TB3-14B		INTERNAL BUS		7
TB3-14A	E17	A 682	SHIELD GRD		7
TB3-14A	E18	A 683	SHIELD GRD		7
TB3-14B	TB3-14A		INTERNAL BUS		7
TB3-14B	TB3-14C		INTERNAL BUS		7
TB3-14B	TB3-1H	A 672	SHIELD GRD		7
TB3-14B	E19	A 684	SHIELD GRD		7
TB3-14C	TB3-14B		INTERNAL BUS		7
TB3-14C	TB3-14D		INTERNAL BUS		7
TB3-14C	E20	A 685	SHIELD GRD		7
TB3-14C	E21	A 686	SHIELD GRD		7
TB3-14D	TB3-14C		INTERNAL BUS		7
TB3-14D	E22	A 687	SHIELD GRD		7
TB3-14D	E23	A 688	SHIELD GRD		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB3-15 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-15A	TB3-15B		INTERNAL BUS		7
TB3-15A	E24	A 689	SHIELD GRD		7
TB3-15A	E25	A 690	SHIELD GRD		7
TB3-15B	TB3-15A		INTERNAL BUS		7
TB3-15B	TB3-15C		INTERNAL BUS		7
TB3-15B	TB3-1L	A 673	SHIELD GRD		7
TB3-15B	E26	A 691	SHIELD GRD		7
TB3-15C	TB3-15B		INTERNAL BUS		7
TB3-15C	TB3-15D		INTERNAL BUS		7
TB3-15C	E27	A 692	SHIELD GRD		7
TB3-15C	E28	A 693	SHIELD GRD		7
TB3-15D	TB3-15C		INTERNAL BUS		7
TB3-15D	E29	A 694	SHIELD GRD		7
TB3-15D	E30	A 695	SHIELD GRD		7
	TB3-16 8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-16A			SPARE (SHIELD GRD)		7
TB3-16A	TB3-16B		INTERNAL BUS		7
TB3-16A	SHLD A222	A 222A	SHIELD GRD		7
TB3-16B			SPARE (SHIELD GRD)		7
TB3-16B	TB3-16A		INTERNAL BUS		7
TB3-16B	TB3-16C		INTERNAL BUS		7
TB3-16B	TB3-1N	A 674	SHIELD GRD		7
TB3-16C			SPARE (SHIELD GRD)		7
TB3-16C	TB3-16B		INTERNAL BUS		7
TB3-16C	TB3-16D		INTERNAL BUS		7
TB3-16C	SHLD A224	A 224A	SHIELD GRD		7
TB3-16D			SPARE (SHIELD GRD)		7
TB3-16D			SPARE (SHIELD GRD)		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-16	8 CONTACT SIDE FEED TERMINAL BLOCK MODULE 1015961-003				
TB3-16D	TB3-16C		INTERNAL BUS		7
	TB3-17 22 CONTACT BUS BAR ASSY MADE FROM 1902421 INSULATOR AND 1902422 BUS BAR				
TB3-17A	TB2-45C	A 278	0 VDC CRITICS		7
TB3-17B	TB2-25C	A 396	0 VDC CRITICS		7
TB3-17C	TB2-30B	A 410	0 VDC CRITICS		7
TB3-17C	TB2-30B	A 419	0 VDC CRITICS		7
TB3-17C	J28-S3	A 417	BUFFERED 0 VDC		7
TB3-17C	J17-V*	A 562	0 VDC CRITICS		7
TB3-17F	TB2-31D	A 418	0 VDC CRITICS		7
TB3-17F	TB2-31D	A 427	0 VDC CRITICS		7
TB3-17G	TB2-30C	A 420	0 VDC CRITICS		7
TB3-17G	J20-E	A 563	0 VDC CRITICS		7
TB3-17H	TB2-31B	A 421	0 VDC CRITICS		7
TB3-17J	J26-R5	A 433	0 VDC CRITICS		7
TB3-17J	J31-CC	A 565	0 VDC CRITICS		7
TB3-17K	J26-R6	A 434	0 VDC CRITICS		7
TB3-17L	J27-R6	A 464	0 VDC CRITICS		7
TB3-17L	J16-EB	A 567	0 VDC CRITICS		7
TB3-17M	J27-S6	A 465	0 VDC CRITICS		7
TB3-17N	TB2-35A	A 483	0 VDC CRITICS		7
TB3-17N	J32-A*	A 569	0 VDC CRITICS		7
TB3-17P	TB2-35B	A 484	0 VDC CRITICS		7
TB3-17P	TB2-35C	A 493	0 VDC CRITICS		7
TB3-17Q	TB2-35C	A 492	0 VDC CRITICS		7
TB3-17Q	J30-P3	A 570	0 VDC CRITICS		7
TB3-17R	TB2-36A	A 486	0 VDC CRITICS		7
TB3-17R	TB2-36C	A 489	0 VDC CRITICS		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-17	22 CONTACT BUS BAR ASSY MADE FROM 1902421 INSULATOR AND 1902422 BUS BAR				
TB3-17S	TB2-36B	A 487	0 VDC CRITICS		7
TB3-17S	TB2-36D	A 490	0 VDC CRITICS		7
TB3-17T	J29-S4	A 494	0 VDC CRITICS		7
TB3-17V	J29-S5	A 495	0 VDC CRITICS		7
TB3-17V	E219	A 572	0 VDC CRITICS		7
TB3-17W	J20-J	A 564	0 VDC CRITICS		7
TB3-17X	J32-C*	A 566	0 VDC CRITICS		7
TB3-17X	J22-R6	A 600	0 VDC CRITICS		7
TB3-17Y	J31-EE	A 568	0 VDC CRITICS		7
TB3-17Y	J32-Z	A 823	0 VDC CRITICS		7
TB3-17Z	J30-P4	A 571	0 VDC CRITICS		7
TB3-17Z	TB3-9A	A 602	0 VDC CRITICS		7
	TB3-18 22 CONTACT BUS BAR ASSY MADE FROM 1902421 INSULATOR AND 1902422 BUS BAR				
TB3-18A	J5-P	A 540	0 VDC IMU		7
TB3-18A	J22-B5	A 657	0 VDC IMU		7
TB3-18B	J5-R	A 541	0 VDC IMU		7
TB3-18B	TB1-27C	A 656	0 VDC IMU		7
TB3-18C	J2-E	A 538	0 VDC IMU		7
TB3-18C	J22-G5	A 658	0 VDC IMU		7
TB3-18D	J5-N	A 539	0 VDC IMU		7
TB3-18D	TB1-27B	A 655	0 VDC IMU		7
TB3-18F	J15-F	A 536	0 VDC IMU		7
TB3-18F	TB1-6C	A 815	0 VDC IMU		7
TB3-18G	J14-L*	A 537	0 VDC IMU		7
TB3-18H	TB3-4A	A 123	0 VDC IMU		7
TB3-18H	TB2-12C	A 463	0 VDC IMU		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB3-18	22 CONTACT BUS BAR ASSY MAKE FROM 1902421 INSULATOR AND 1902422 BUS BAR				
TB3-18J	J15-E	A 535	0 VDC IMU		7
TB3-18J	TB1-28D	A 649	0 VDC IMU		7
TB3-18K	TB1-10C	A 452	0 VDC IMU		7
TB3-18L	TB2-12B	A 462	0 VDC IMU		7
TB3-18L	TB1-28C	A 648	0 VDC IMU		7
TB3-18M	TB1-9C	A 446	0 VDC IMU		7
TB3-18N	TB1-10B	A 451	0 VDC IMU		7
TB3-18N	E219	A 545	0 VDC IMU		7
TB3-18P	TB1-8C	A 441	0 VDC IMU		7
TB3-18Q	TB1-9B	A 445	0 VDC IMU		7
TB3-18Q	J3C-H1	A 544	0 VDC IMU		7
TB3-18R	TB1-6B	A 385	0 VDC IMU		7
TB3-18S	TB1-8B	A 44C	0 VDC IMU		7
TB3-18S	J3C-K2	A 543	0 VDC IMU		7
TB3-18T	J22-P2	A 353	0 VDC IMU		7
TB3-18V	TB1-32B	A 343	0 VDC IMU		7
TB3-18V	TB1-32B	A 344	0 VDC IMU		7
TB3-18W	TB1-37C	A 325	0 VDC IMU		7
TB3-18X	TB1-37D	A 326	0 VDC IMU		7
TB3-18X	J3C-K1	A 542	0 VDC IMU		7
TB3-18Y	TB3-4B	A 124	0 VDC IMU		7
TB3-18Z	TB1-51C	A 161	0 VDC IMU		7
TB3-18Z	TB1-51C	A 162	0 VDC IMU		7

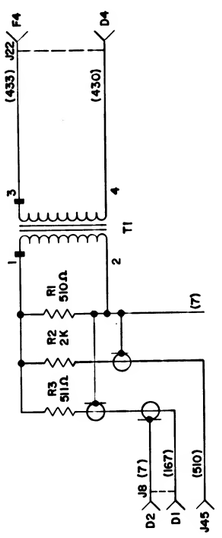
MIL 2084 4-83

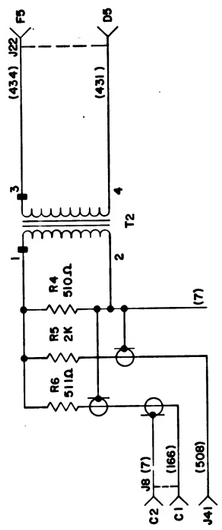
FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
	TB5 TERMINAL BOARD ASSY 1902386				
TB5-1	J22-F4	A 628L	ACCEL FAIL RET	4	433
TB5-2	J22-C4	A 628R	ACCEL FAIL	4	430
TB5-3	SHLD A629	A 629B	C VDC IMU	4	7
TB5-3	E10	A 630	0 VDC IMU	4	7
TB5-3	SHLD A814	A 814B	C VDC IMU	4	7
TB5-4	J45	A 814E	ACCEL FAIL	4	510
TB5-5	J8-C1	A 629E	ACCEL FAIL	4	167
TB5-7	J22-F5	A 631L	CDU FAIL RET	4	434
TB5-8	J22-C5	A 631R	CDU FAIL	4	431
TB5-9	SHLD A632	A 632B	C VDC IMU	4	7
TB5-9	E10	A 633	0 VDC IMU	4	7
TB5-9	SHLD A634	A 634B	0 VDC IMU	4	7
TB5-10	J41	A 634	CDU FAIL	4	508
TB5-11	J8-C1	A 632E	CDU FAIL	4	166
TB5-13	J22-F6	A 635L	IMU FAIL RET	4	435
TB5-14	J22-C6	A 635R	IMU FAIL	4	432
TB5-15	SHLD A636	A 636B	C VDC IMU	4	7
TB5-15	E10	A 637	0 VDC IMU	4	7
TB5-15	SHLD A638	A 638B	C VDC IMU	4	7
TB5-16	J43	A 638E	IMU FAIL TEST HI	4	509
TB5-17	J8-B1	A 636E	IMU FAIL	4	165
TB5-19	J3C-C3	A 624L	STAR PRESENCE LO	4	502
TB5-20	J3C-C4	A 624R	STAR PRESENCE HI	4	503
TB5-21	SHLD A625	A 625B	STAR PRESENCE INPUT LO	4	150
TB5-21	TB2-55C	A 626	STAR PRESENCE INPUT LO	4	150
TB5-21	SHLD A627	A 627B	STAR PRESENCE INPUT LO	4	150
TB5-22	J47	A 627E	STAR PRESENCE TEST HI	4	511
TB5-23	J6-K1	A 625E	STAR PRESENCE HI	4	149

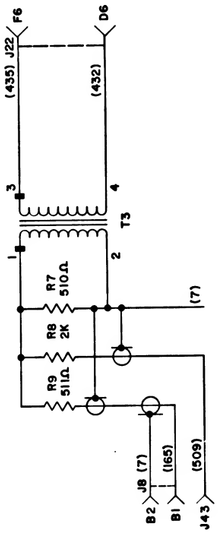
MIL 2084 4-83

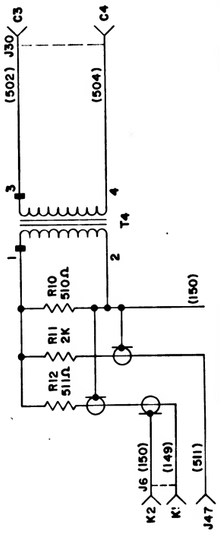
REVISIONS PER ECR 19512

SYM	ZONE	DESCRIPTION	ENG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

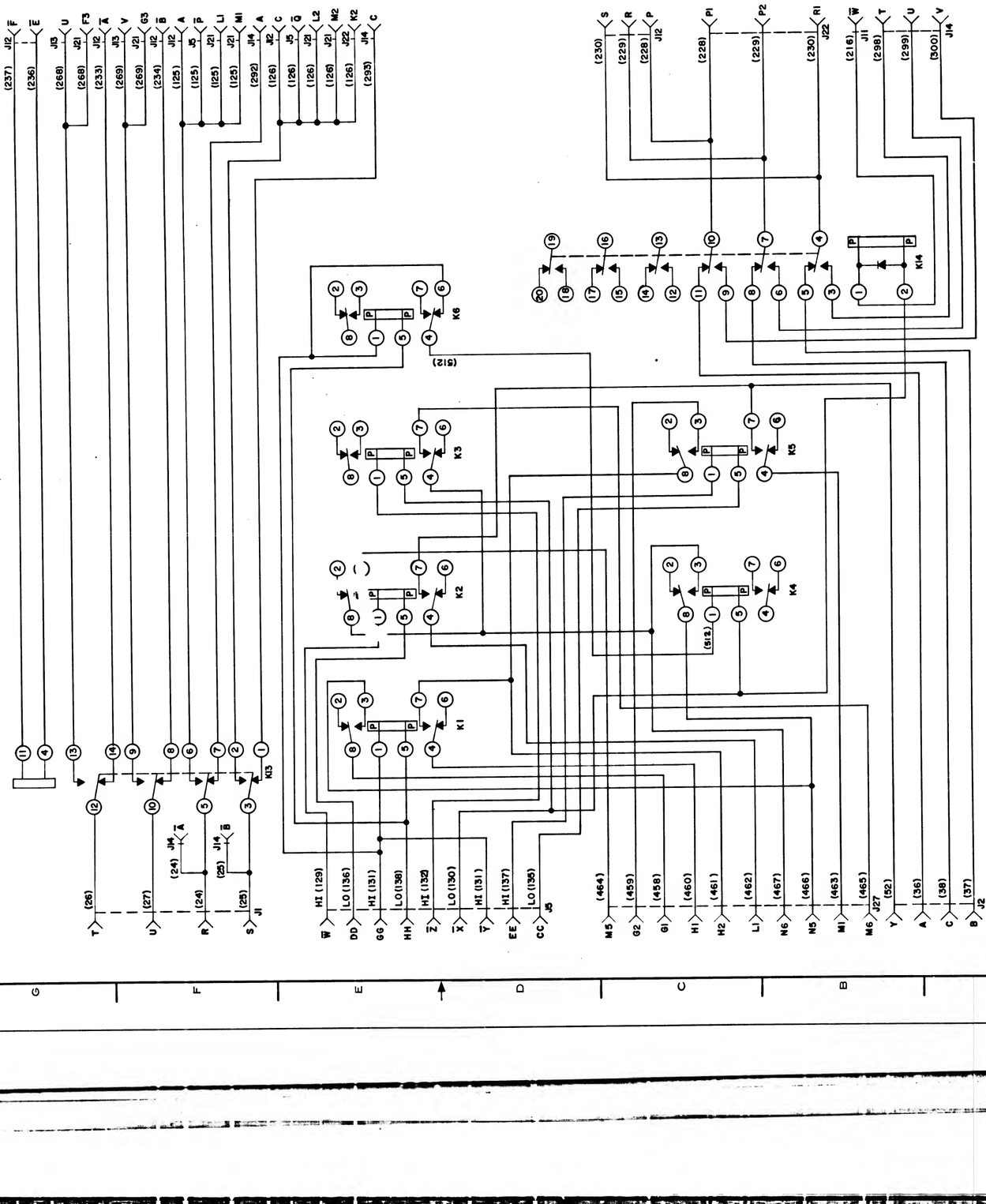








UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION GMC MILWAUKEE, WISCONSIN. ACSP NO.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
FRACTIONS ± — DECIMALS ± — ANGLES ± —	DRAWN DATE	GSE-PSA JUNCTION BOX SCHEMATIC DIAGRAM
DO NOT SCALE THIS DRAWING	APPROVAL	CODE IDENT NO 99974 SIZE E 1902264
MATERIAL —	MSA APPROVAL	SCALE NONE SHEET 1 OF 1
CONTRACT NASS-497	MIT APPROVAL	

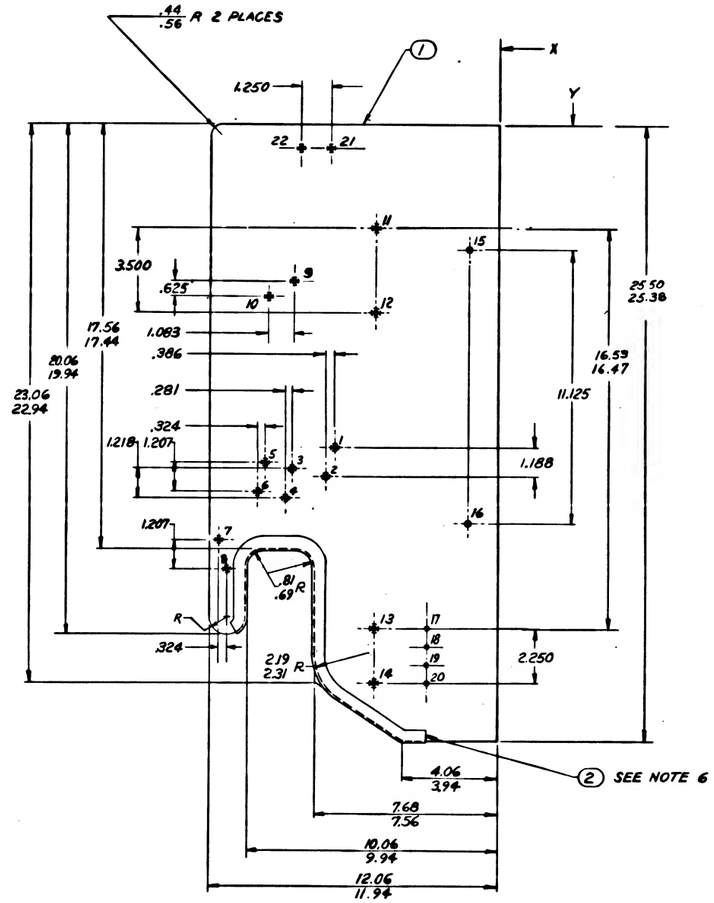


NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS.
3. HOLE NUMBERS ARE FOR MANUFACTURING REFERENCE.
4. MATERIAL: ALUMINUM ALLOY PER QQ-A-250/8 TEMPER H-32 (TYPE 5052, ES-2105).
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES-267).
6. BOND ITEM (2) TO ITEM (1) IN APPROXIMATE POSITION SHOWN, PER MIL-A-9067 USING ITEM (3).
7. FINISH: APPLY PSI3 OF MIL-F-14072. APPLY ITEM (5) AND TWO COATS OF ITEM (4) TO ITEM (1) ONLY.
8. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

REVISIONS						17N51
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD	
A	—	UPGRADED TO CLASS 'A' PER TDRR 17851		25 Feb 65		





COORDINATE DIMENSIONS			
HOLE NO.	COORDINATES X(HORIZ)	COORDINATES Y(VERT)	HOLE DESCRIPTION
1	6.87 6.75	13.37 13.25	.186 / .194 DIA THRU, 82° CSK TO .337 / .352 DIA, FAR SIDE
2	—	—	
3	8.62 8.50	14.25 14.13	
4	—	—	
5	9.75 9.63	14.00 13.88	
6	—	—	
7	11.68 11.56	17.18 17.06	
8	—	—	
9	8.56 8.44	6.50 6.38	
10	—	—	
11	5.15 5.09	4.28 4.22	.217 / .225 DIA THRU, 82° CSK TO .390 / .405 DIA, FAR SIDE
12	—	—	
13	5.15 5.09	—	
14	—	—	
15	1.250	5.12	.2485 / .2500 DIA THRU
16	—	—	
17	2.91 2.85	20.78 20.72	.160 / .164 DIA. THRU 10-32 NF 2B THD. THRU 100° CSK TO MAJOR DIA., FAR SIDE
18	2.91 2.85	21.53 21.47	
19	2.91 2.85	22.28 22.22	
20	2.91 2.85	23.03 22.97	
21	7.06 6.94	1.06 .94	.186 / .194 DIA THRU, 82° CSK TO .337 / .352 DIA, FAR SIDE
22	—	—	

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
5	AR	MIL-P-8585	PRIMER
4	AR	1016194	ENAMEL, CASHMERE BLUE
3	AR	1016191	ADHESIVE (ES-2770-4)
2	1	1016366-004	SEAL, CHANNEL
1	1	1902266-001	SUPPORT, SHELF, CABLE (SEE NOTES 4 & 7)

LIST OF PARTS AND MATERIALS

SEE NOTE 8
SEE NOTE 8
SEE NOTE 8

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ±, DECIMALS ±.02, ANGLES ±2°; .XXX ±.005

DO NOT SCALE THIS DRAWING

MATERIAL: SEE NOTE 4

CONTRACT: NAS 9-497

AC SPARK PLUG DIVISION GMC, MILWAUKEE, WISCONSIN

ACSP PN

DRAWN: Paul Miller 22 Feb 65

CHECKED: Bryce 26 Feb 65

APPROVAL: W. Arnold 26 Feb 65

APPROVAL: L. Johnson 2/24/65

NASA APPROVAL: [illegible] MAR 29 1965

MIT APPROVAL: [illegible] 3/4/65

2 Harrison 26 Feb 65

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

SUPPORT, SHELF, CABLE (INSEP ASSEMBLY)

CODE IDENT NO.

SIZE E

1902266

SCALE 1/2

SHEET 1 OF 1

1901846-021 NEXT ASSY

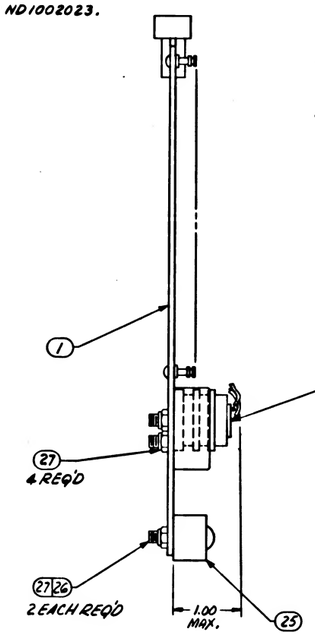
1901846-021 USED ON

APPLICATION

REVISIONS					
D.W.	ZONE	DESCRIPTION DCR 17836	DATE	APPD
F		UPGRADE FOR CLASS A RELEASE	9 OCT 68	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NO. PER MIL-STD-130 (ES267).
3. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS (35) AND (36), OR ITEM (37).
4. BOND ITEMS (13) (14) (20) (21) AND (22) TO ITEM (1) PER ND1002203.
5. SECURE ITEM (28) USING ITEM (38)
6. VENDOR ITEM. SEE SPECIFICATION CONTROL DRAWING
7. BEFORE SOLDERING, ASSEMBLE ITEMS (22) AND (32) BOND TO ITEM (24) PER ND 1002203.
8. MARK "SCHEM" AND APPLICABLE SCHEMATIC NO PER ND 1002019, .09 HIGH, COLOR BLACK
9. LOCKING TORQUE FOR HEAT SINK CAP, 25-30 IN. OZ.
10. UNLESS OTHERWISE SPECIFIED, ALL TERMINALS ON ITEMS (18), (19) & (25) THAT ARE WIRED REQUIRE SLEEVING, USING ITEM (40).
11. SERIALIZE PER ND1002023.



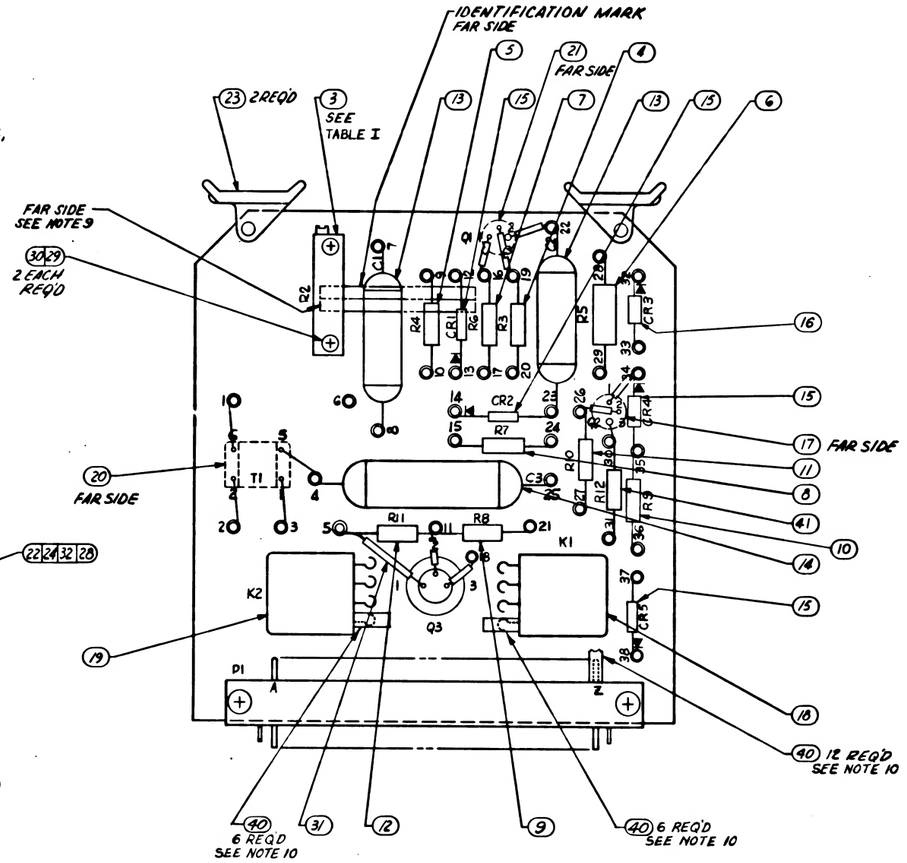


TABLE I

FROM	TO	STRIP	TIN
R2-YEL	TERM 6	.25	YES
R2-RED	TERM 6	.25	YES
R2-GRN	TERM 17	.25	YES

QUANTITY REQUIRED	EFFEC TIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
1	-011	41	RC20GF510J	(1896952-018) RESISTOR MIL-R-11/3

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
8102046	8102020	-011

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

QUANTITY REQUIRED	EFFEC TIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 6		24	1015864-079	INSULATION-SLEEVING, ELEC
		X	39 PS1902271	PROCUREMENT SPECIFICATION
		AR	38 MIL-S-22473 GRADE C	SEALING & RETAINING COMPOUND (ES-2544-3)
		AR	37 SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
		AR	36 MIL-F-14256 TYPE A OR W	FLUX (ES-2798)
		AR	35 SN60 WS	SOLDER QQ-S-571 (ES2175-1)
		X	34 1902316	SCHEMATIC DIAGRAM
		1	33 1902315	WIRE LIST AA
SEE NOTE 6		1	32 1015872-001	HEAT SINK
6		AR	31 1006776-20	INSUL SLEEVING (WHITE)
6		2	30 MS-35216-7	SCREW-PAN HEAD
6		2	29 1016151-002	NUT SELF LOCKING
		1	28 MS-35216-11	SCREW-PAN HEAD
6		6	27 1016151-004	NUT SELF LOCKING
		2	26 MS-35216-17	SCREW-PAN HEAD
6		1	25 1015956-188	CONNECTOR-PLUG
6		1	24 1015870-001	INSULATOR-DISC
6		2	23 1015999-004	EJECTOR
6		1	22 1015928-002	TRANSISTOR
6		1	21 1015928-001	TRANSISTOR
6		1	20 1016010	TRANSFORMER
6		1	19 1015802-006	RELAY
6		1	18 1015832-218	RELAY.
6		1	17 1015934-001	TRANSISTOR
6		1	16 1015941-12	DIODE
		4	15 1N459	(1896966-291) DIODE MIL-S-19500
		1	14 CP05AIKB330K3	(1896959-010) CAPACITOR MIL-C-25
		2	13 CP05AIKB104K3	(1896959-004) CAPACITOR MIL-C-25
		1	12 RC20GF102J	(1896952-049) RESISTOR MIL-R-11/3
		1	11 RC20GF274J	(1896952-107)
		1	10 RC20GF332J	(1896952-061)
		1	9 RC20GF272J	(1896952-059) MIL-R-11/3
		1	8 RNC082002F	(1896977-818) MIL-R-10509/1
		1	7 RNC081000F	(1896977-193) /1
		1	6 RNC65822IIF	(1896975-322) /2
		1	5 RNC085621F	(1896977-361) /1
		1	4 RNC081692F	(1896977-407) MIL-R-10509/1
		1	3 RT12CC1102	(1896967-007) RESISTOR MIL-R-27208
		2		
		1	1 1902314	TERMINAL BOARD (INSEP ASSY)

LIST OF PARTS AND MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±. DO NOT SCALE THIS DRAWING. MATERIAL —. CONTRACT NAS9-897

AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN. ACSP PN

DRAWN WEISSERT DATE 8 JAN 68. CHECKED W Sirell 2 Feb 68. APPROVED J Kuhlman 2 FEB 68. APPROVAL M Wilson 2-23-68

STRESS APPROVAL 26-FEB-68. MET APPROVAL 26-FEB-68

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

DETECTOR, CODED PULSE-102.4 KC

CODE IDENT NO. 1902271 SIZE E

SCALE 2:1 SHEET 1 OF 1

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
	1901959-011 (M)	B	UPGRADED TO CLASS 'A' PER TDRR 17838-65	15 MAR 65	M.T.W.
		C	REVISED PER TDRR 21057	31 JUL 65	RLP

REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
REV STATUS OF SHEETS	REV													C	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET													1	2	3	4	5	6	7	8	9	10	11	12	13

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
ACSP PN	
DRAWN John Kwiatowski 3 MAR 65 DATE	GSE JUNCTION BOX SCHEMATIC DIAGRAM
CHECKED J. Saylor 3 MAR 65	
APPROVAL J. Thomas 11 MAR 65	
APPROVAL J. W. Watson 3-26-65	
NASA APPROVAL	CODE IDENT NO. / SIZE A / 1902281 / REV C
MIT APPROVAL	
CONTRACT NAS 9-497	SCALE — / SHEET 1 OF 245

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
40	C	76	C	112	C	148	C	184	C	220	C				
41	C	77	C	113	C	149	C	185	C	221	C				
42	C	78	C	114	C	150	C	186	C	222	C				
43	C	79	C	115	C	151	C	187	C	223	C				
44	C	80	C	116	C	152	C	188	C	224	C				
45	C	81	C	117	C	153	C	189	C	225	C				
46	C	82	C	118	C	154	C	190	C	226	C				
47	C	83	C	119	C	155	C	191	C	227	C				
48	C	84	C	120	C	156	C	192	C	228	C				
49	C	85	C	121	C	157	C	193	C	229	C				
50	C	86	C	122	C	158	C	194	C	230	C				
51	C	87	C	123	C	159	C	195	C	231	C				
52	C	88	C	124	C	160	C	196	C	232	C				
53	C	89	C	125	C	161	C	197	C	233	C				
54	C	90	C	126	C	162	C	198	C	234	C				
55	C	91	C	127	C	163	C	199	C	235	C				
56	C	92	C	128	C	164	C	200	C	236	C				
57	C	93	C	129	C	165	C	201	C	237	C				
58	C	94	C	130	C	166	C	202	C	238	C				
59	C	95	C	131	C	167	C	203	C	239	C				
60	C	96	C	132	C	168	C	204	C	240	C				
61	C	97	C	133	C	169	C	205	C	241	C				
62	C	98	C	134	C	170	C	206	C	242	C				
63	C	99	C	135	C	171	C	207	C	243	C				
64	C	100	C	136	C	172	C	208	C	244	C				
65	C	101	C	137	C	173	C	209	C	245	C				
66	C	102	C	138	C	174	C	210	C						
67	C	103	C	139	C	175	C	211	C						
68	C	104	C	140	C	176	C	212	C						
69	C	105	C	141	C	177	C	213	C						
70	C	106	C	142	C	178	C	214	C						
71	C	107	C	143	C	179	C	215	C						
72	C	108	C	144	C	180	C	216	C						
73	C	109	C	145	C	181	C	217	C						
74	C	110	C	146	C	182	C	218	C						
75	C	111	C	147	C	183	C	219	C						

	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION C	NASA DRAWING NO. 1902281 SHEET 2 OF 245

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. ALL RELAYS ARE IN THE UNENERGIZED OR "OFF" POSITION.
4. VALUES ARE IN OHMS AND MICROFARADS.
5. BARS PLACED OVER LETTERS OR ASTERISKED SUFFIXES INDICATE LOWER CASE LETTERS.
6. UNLESS OTHERWISE SPECIFIED ALL CONDUCTORS ARE WHITE.
7. THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR COLOR.
   - A – FROM END SHIELD
   - B – TO END SHIELD
   - L – WHT WITH BLUE TRACER
   - R – WHT WITH RED TRACER
   - W – WHITE SHIELDED
   - Y – WHT WITH YELLOW TRACER
8. LAST NETWORK NUMBER USED 622
9. DRAWINGS FOR REFERENCE:

1901959-011	ASSEMBLY DRAWING
1902282	WIRING HARNESS A
1901889	WIRE LIST A A
1900832	WIRE LIST A A
1900835	WIRE LIST A A

10. GROUND SYMBOLS:

- SHIELD GRD (TB 15)
- 1 OVDC IMU (TB 16)
- 2 OVDC OPTICS (TB 14)
- 3 OVDC AGC (TB 10)
- 4 AGE PWR GRD (TB 8)
- 5 RELAY & LAMP PWR LO
- 6 400 CPS LO

11. NETWORK NUMBERS INDICATE CIRCUIT CONTINUITY BETWEEN AND THRU PARTS WHERE RESISTANCE IS CONSIDERED ZERO FOR TEST PURPOSES.
12. FOR CORRELATION OF CIRCUIT POINTS BETWEEN THE COMPOSITE LIST AND THEIR CIRCUITS SHOWN SCHEMATICALLY, USE THE NETWORK NUMBERS AND TABLE I FOR LOCATION.
13. NETWORK NUMBERS OMITTED FROM TABLE I ARE NOT SHOWN SCHEMATICALLY.

REVISIONS				
SYM	ZONE	DESCRIPTION	CHG NO	DATE / APPD
M		SEE SHEET 1 FOR REVISION RECORD		

TABLE I

NET. NO	SH NO.
1	6
2	16
3	7
4	16
5	16
6	10
7	6,7,8,10
8	6
9	17
10	6
11	6
12	5
13	5
14	5
15	5
17	17
18	5
19	17
20	5
21	5
24	5
25	9
26	9
27	8
28	14
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NEXT ASSY	1901959-011
APPLICATION	USED ON

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± —

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MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN A.J. Kowalski 3 MAR 65 DATE

CHECKED J. Gaylen 11 MAR 65

APPROVAL 11 MAR 65

APPROVAL 3-25-65

NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GSE JUNCTION BOX SCHEMATIC DIAGRAM

CODE IDENT NO. | SIZE D | 1902281

SCALE — | SHEET 3 OF 245

MIL 1077-K

D	1902281	2	1

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

27V DC HI OIA ON — C, AA — J7 — F19, 8 AMP, XF19
27V DC RLP ON — D, BB
AGE POWER TRANSFER — A x, B y — TB1
AGE PWR TRANSFER LO — z — A1CR10, X1, X2, K6, K1
J47 F AGC COMMON
K54, K44, K48, K17 TB12, K42, K52, K46, K61, K50
K38, K45, K49, A2CR2, K18, K43, K53, K47, K62, K51
TB12 — A2CR1, K29, K59, K57, K63, K65, K67
K60, K58, K64, K66, K68
AGC POWER ON LAMP — r
27V DC HI AGC — s
OPTICS POWER ON LAMP — v
27V DC HI OPTICS — w
ISS STBY ON IND — CC
27V DC HI ISS STBY — DD
27 VDC HI ISS OPERATE — IND EE, CMND FF — A1CR2, A1CR3, A1CR4, A1CR5, K2, K3, K4, K5
J34 z, w, m — FOR GSE USE ONLY
Y +28V DC M & DV
J25 d 28V DC FOR M & DV
J43 z M & DV & INTEGRAL LIGHTING PWR 28V DC HI
CONTINUITY TEST PROCEED VOLTAGE — JJ — J9, K7, A1C1 1mf, A1R1 51Ω
CONTINUITY TEST SOURCE VOLTAGE — HH — K25
CONTINUITY TEST PROCEED LIGHT — u — J8
CONTINUITY IND — v — K7
P1 A, B, E, D, C, Y, X, W, V, U, T — JA — INTERRUPTER, OFF-NORMAL
LEVEL 2 W — JD — P4 — POS 6 F, POS 9 J, POS 10 K, POS 17 T, POS 18 U, POS 21 X — A1CR1, K8
LEVEL 1 W — JB — P2
LEVEL 3 W — JF — P6
LEVEL 4 W — JH — P8
LEVEL 5 W — JK — P10 — K25
K10

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
1901959-011		DO NOT SCALE THIS DRAWING	ACSP PN		
APPLICATION		MATERIAL —	DRAWN DATE 3 MAR 65	GSE JUNCTION BOX SCHEMATIC DIAGRAM RELAY COMMANDS - 27V DC RELAY & LAMP POWER DISTRIBUTION	
		CONTRACT NAS 9-497	CHECKED 11 MAR 65	CODE IDENT NO.	SIZE D — 1902281
			APPROVAL 11 MAR 65	SCALE —	SHEET 4 OF 245
			APPROVAL		
			NASA APPROVAL		
			MIT APPROVAL		

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

PIPA LOOPS INHIBIT { IND g, CMND h } — J9 — K22, K40, K41

X GYRO ERROR TO MG SA k

Y GYRO ERROR TO MG SA m

IG POS SEL IND r — K45

ENABLE IG IMU RSVR SIG TO GPC s — K44, K46, K42

MG CDU LOOP INHIBIT u

IG CDU LOOP INHIBIT q

MG POS SEL IND v — K49

ENABLE MG IMU RSVR SIG TO GPC w — K48, K50

OG CDU LOOP INHIBIT x

OG POS SELECTED IND y — K53

ENABLE OG IMU RSVR SIG TO GPC z — K52, K54, K57, K55

IRIG TEST SELECTED KK

IG CDU TEST COMMAND B

X GYRO ERROR TO OG SA J

OG CDU TEST COMMAND Y

MG CDU TEST COMMAND t

INVERT Z GYRO ERROR n — K56, K61, K65

SHAFT LOOP TEST CONTROL S — J1 — K19 — TB12 A2CR4 — K20

OPTICS TEST COMMAND X — K21

SCT MDA DISABLE { HI U, LO V } — TB12 A2CR8 — K26, K30

TRUNNION LOOP TEST CONTROL V

ENABLE SHAFT CDU MTR EE

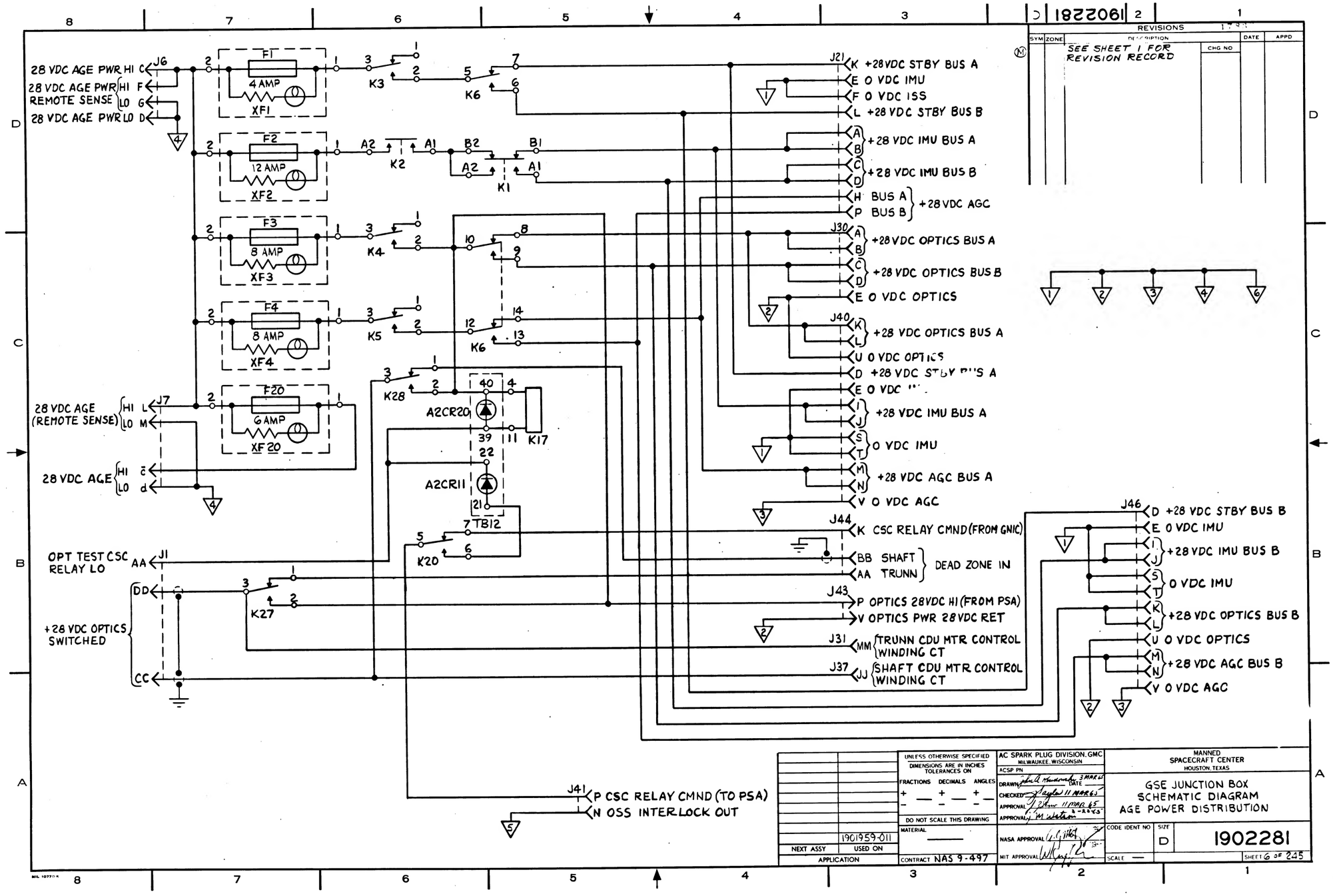
OPTICS TEST LATCH VOLTAGE P

ENABLE TRUNN CDU MTR FF — TB12 A2CR6 — K27; K28 — TB12 A2CR7

27V DC RLP LO OSS ONLY K — J7 — J30 M / J35 y — 27V DC RLP LO OSS ONLY

NEXT ASSY	1901959-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
USED ON			ACSP PN		
APPLICATION			DRAWN John Thurmond 3 MAR 65 DATE	GSE JUNCTION BOX SCHEMATIC DIAGRAM RELAY COMMAND	
			CHECKED Raymond 11 MAR 65		
		DO NOT SCALE THIS DRAWING	APPROVAL 11 MAR 65		
		MATERIAL —	APPROVAL 7-2-65	CODE IDENT NO.	SIZE D 1902281
CONTRACT	NAS 9-497		NASA APPROVAL 2 SEP 1965	SCALE —	SHEET 5 OF 245
			MIT APPROVAL		

MIL 1077-A


28 VDC AGE PWR HI C
28 VDC AGE PWR HI F
28 VDC AGE PWR REMOTE SENSE LO G
28 VDC AGE PWR LO D
J6
F1
4 AMP
XF1
K3
K6
F2
12 AMP
XF2
K2
K1
F3
8 AMP
XF3
K4
F4
8 AMP
XF4
K5
K6
28 VDC AGE (REMOTE SENSE) HI L
LO M
J7
F20
6 AMP
XF 20
28 VDC AGE HI c
LO d
K28
A2CR20
K17
A2CR11
TB12
K20
OPT TEST CSC RELAY LO AA
J1
DD
CC
K27
+28 VDC OPTICS SWITCHED
J41
P CSC RELAY CMND (TO PSA)
N OSS INTERLOCK OUT
J21
K +28VDC STBY BUS A
E 0 VDC IMU
F 0 VDC ISS
L +28 VDC STBY BUS B
+28 VDC IMU BUS A
+28 VDC IMU BUS B
H BUS A
P BUS B
+28 VDC AGC
J30
+28 VDC OPTICS BUS A
+28 VDC OPTICS BUS B
E 0 VDC OPTICS
J40
+28 VDC OPTICS BUS A
U 0 VDC OPTICS
D +28 VDC STBY BUS A
E 0 VDC
+28 VDC IMU BUS A
0 VDC IMU
+28 VDC AGC BUS A
V 0 VDC AGC
J44
K CSC RELAY CMND (FROM GNIC)
BB SHAFT
AA TRUNN
DEAD ZONE IN
J43
P OPTICS 28VDC HI (FROM PSA)
V OPTICS PWR 28VDC RET
J31
MM TRUNN CDU MTR CONTROL WINDING CT
J37
JJ SHAFT CDU MTR CONTROL WINDING CT
J46
D +28 VDC STBY BUS B
E 0 VDC IMU
+28 VDC IMU BUS B
0 VDC IMU
+28 VDC OPTICS BUS B
U 0 VDC OPTICS
+28 VDC AGC BUS B
V 0 VDC AGC
1902281
REVISIONS
SYM ZONE DESCRIPTION CHG NO DATE APPD
SEE SHEET 1 FOR REVISION RECORD
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
1901959-011
NEXT ASSY USED ON
APPLICATION
CONTRACT NAS 9-497
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 3 MAR 65
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL
NASA APPROVAL
MIT APPROVAL
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
GSE JUNCTION BOX SCHEMATIC DIAGRAM AGE POWER DISTRIBUTION
CODE IDENT NO SIZE D
1902281
SCALE
SHEET 6 OF 245

1902281 2

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

J46 +28 VDC OPTICS BUS B (G)
+28 VDC STBY BUS B (A)
+28 VDC IMU BUS B (C)
+28 VDC AGC BUS B (F)

+28 VDC AGC { BUS B (g), BUS A (h) } — J7
0 VDC AGC (n)
+28 VDC IMU { BUS B (f), BUS A (i) }
0 VDC IMU (m)
+28 VDC STBY { BUS B (e), BUS A (j) }
+28 VDC OPTICS { BUS A (GG), BUS B (HH) }
0 VDC OPTICS (P)

J27 { W BUS B, V BUS A } +28 VDC AGC
X 0 VDC AGC
Z BUS B, Y BUS A } +28 VDC IMU
u 0 VDC IMU
X BUS B, W BUS A } +28VDC STBY

J40 A +28 VDC STBY BUS A
a +28 VDC AGC BUS A
f 0 VDC AGC
C +28 VDC IMU BUS A
F 0 VDC AGC
G +28 VDC OPTICS BUS A
b 0 VDC OPTICS

J30 { F BUS B, H BUS A } +28 VDC OPTICS
J 0 VDC OPTICS

J21 G SHLD GRD
J22 B CABLE W38 SHLD GRD
J23 C CABLE W43 SHLD GRD
H, R } SHLD GRD
J24 S, T } OPTICS 0 VDC
U CABLE W44 SHLD GRD
J25 B CABLE W39 SHLD GRD
J26 B CABLE W40 SHLD GRD
J27 B CABLE SHLD GRD
J30 G SHLD GRD
K CABLE W45 SHLD GRD
J31 B CABLE W46 SHLD GRD
J32 B CABLE W47 SHLD GRD
J33 B { CABLE W48 SHLD GRD

J34 B CABLE W49 SHLD GRD
J35 B CABLE W50 SHLD GRD
J36 B CABLE W51 SHLD GRD
J37 B CABLE W52 SHLD GRD
J38 B CABLE W53 SHLD GRD
J39 B CABLE W54 SHLD GRD
J41 H CABLE W56 SHLD GRD
J42 B CABLE W57 SHLD GRD
J45 B CABLE W54 SHLD GRD
J43 G OPTICS SHLD GRD (FROM GNIC)
a CABLE W58 SHLD GRD
J44 a CABLE W58 SHLD GRD
J40 C CABLE W55 SHLD GRD
X SHLD GRD

CABLE W29 SHLD GRD } A — J6

K4, K3

J43 F IMU POWER 28 VDC RET (0 VDC)
J25 9 +28 VDC ISS STBY HI
K +28 VDC IMU
J32 AA +28 VDC (IMU)
J33 AA +28 VDC (IMU)
J38 AA IMU +28 VDC
J45 S +28 VDC IMU
GG +28 VDC MDV
J42 e +28 VDC OPTICS HI

+28 VDC STBY r
0 VDC OPTICS BB
+28 VDC OPTICS AA
+28 VDC IMU S
0 VDC IMU T
J11
A2CR10, A2CR9
TB12

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — — + — — + — — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
		MATERIAL —	ACSP PN
	1901959-011		DRAWN [signature] 3 MAR 65 DATE
NEXT ASSY	USED ON		CHECKED [signature] 11 MAR 65
APPLICATION		CONTRACT NAS 9-497	APPROVAL [signature] 4 MAR 65
			APPROVAL [signature] 2-26-65
			NASA APPROVAL [signature]
			MIT APPROVAL [signature]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
AGE POWER MONITOR-SHIELD GRD

CODE IDENT NO | SIZE D | 1902281
SCALE — | SHEET 7 OF 245

MIL 1077D-K

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

GIMBAL LOCK SIGNAL { HI L, LO M } J5

GV 400 ~ { HI JJ, LO KK } J10

GIMBAL LOCK LIGHT { HI GG, LO HH }

J25 m MG LOCK INDICATION

J34 F GIMBAL LOCK SIGNAL; G 0 VDC IMU

T GIMBAL LOCK LIGHT HI

L HI, N LO — GV 400 ~ LAMP POWER

P HI, R LO — GV 400 ~ LAMP POWER

g HI, h LO — GV 400 ~ LAMP POWER

R2 3.01 Ω 20 W

J31 D GV 400 ~ OSS LOAD; E GV 400 ~ LAMP POWER LO; NN HI, PP LO — GV 400 ~ LAMP POWER

R1 2 Ω 20 W

J32 D GV 400 ~ ISS LOAD; E GV 400 ~ LAMP POWER LO; LL HI, MM LO — GV 400 ~ LAMP POWER

J33 LL HI, MM LO — GV 400 ~ LAMP POWER

J37 KK HI, LL LO — GV 400 ~ LAMP POWER

J38 LL HI, MM LO — GV 400 ~ LAMP POWER

J39 v VAR ILLUM & IND LAMP PWR 400 ~ HI; w 400 ~ VAR LAMP SUPPLY HI (FROM D & C)

LEVEL 3 { POS 12 JF M, POS 13 N } P6 — K10

14, 12, 13, 8, 10, 9 — K8

J43 E 400 ~ VAR LAMP SUPPLY HI; S LO, U LO — GV 400 ~

J47 K, L — 400 ~ LO BUS; J 400 ~ SHIELD GROUND BUS

J23 r HI, 3 LO — LAMP VOLTAGE

J24 L 400 ~ VAR ILLUM POWER; M GV 400 ~ LO

J47 G GIMBAL LOCK LIGHT HI

GIMBAL LOCK LIGHT HI — J10 a

0 VDC IMU — J10 b

115 V 400 ~ { HI t, LO u } J7

J21 M HI, N LO — 115 V 400 ~

J40 d HI, e LO — AGE VIEWER & LAMP POWER 400 ~

J34 V HI, U LO — 115 V 400 ~

0 PH g — J10 2 — F17 .031 AMP XF17 — 1 A 0PH

1.5 V 400 ~

π PH h — J10 2 — F18 .031 AMP XF18 — 1 E π PH

1.5V 400 ~

K10

LEVEL 1 { POS 11 JB L, POS 4 D, POS 7 G, POS 15 R, POS 22 Y, POS 16 S, POS 19 V, POS 5 E, POS 8 H } P2

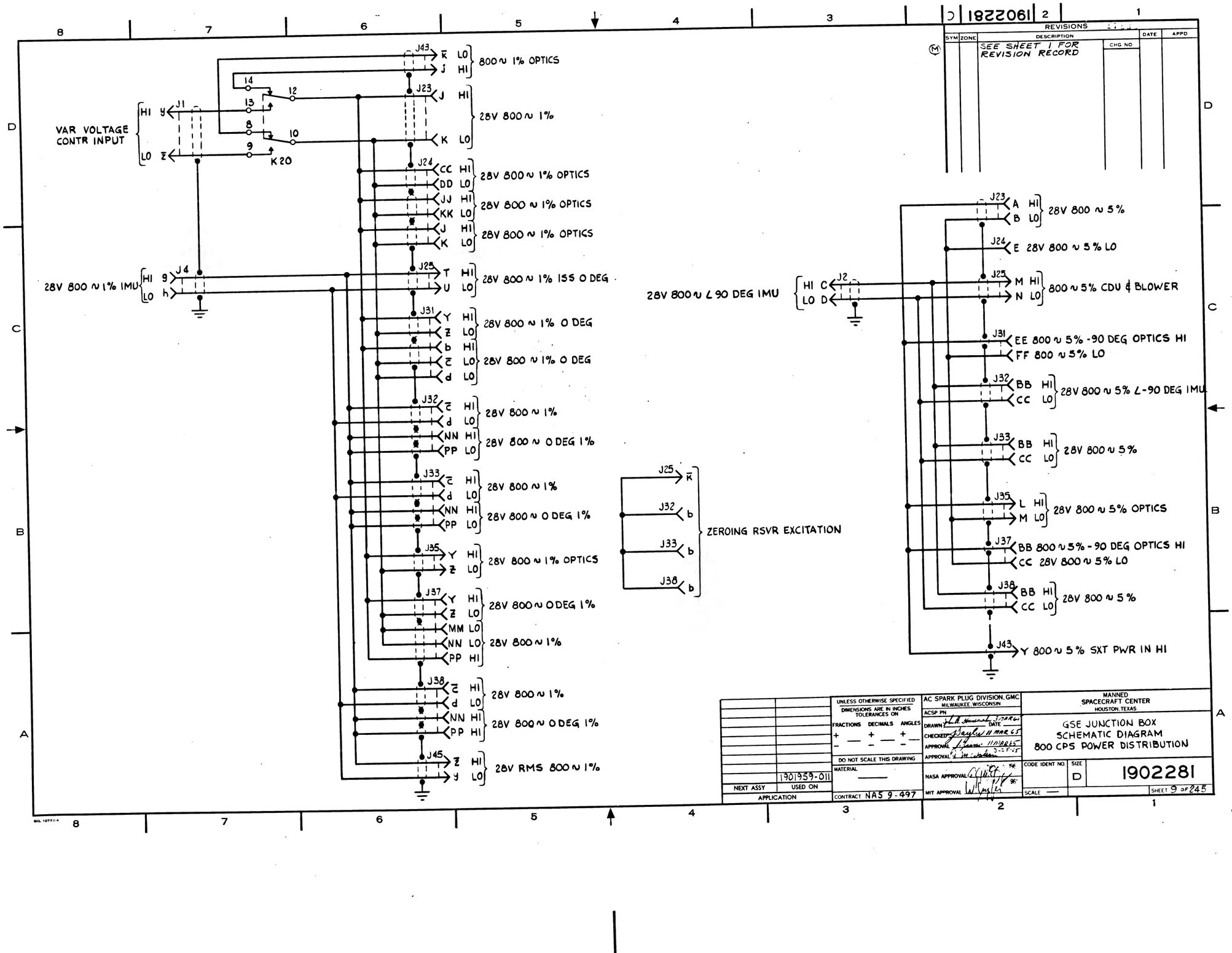
J44 m GV 400~(TO M & DV); b 26V 400 ~ SLEW; d 26V 400 ~ MTR EXCIT; J43 e 0PH, f π PH — 0.5V 400~

LEVEL 3 { POS 4 JF D, POS 7 G, POS 15 R, POS 16 S, POS 19 V, POS 22 Y } P6

Z 26V 400 ~

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + —	AC SPARK PLUG DIVISION. GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
			ACSP PN	GSE JUNCTION BOX SCHEMATIC DIAGRAM 400 CPS POWER DISTRIBUTION & GIMBAL LOCK
			DRAWN 3 MAR 65 DATE	
			CHECKED 11 MAR 65	
		DO NOT SCALE THIS DRAWING	APPROVAL 11 MAR 65	
		MATERIAL —	APPROVAL 3-23-65	CODE IDENT NO. D — 1902281
	1901959-011		NASA APPROVAL	SCALE —
NEXT ASSY	USED ON	CONTRACT NAS 9-497	MIT APPROVAL	SHEET 8 OF 245
APPLICATION				

MIL 1077 H



REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
(M)		SEE SHEET 1 FOR REVISION RECORD			

1902281 C

NEXT ASSY	USED ON
1901959-011	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING MATERIAL —— CONTRACT NAS 9-497

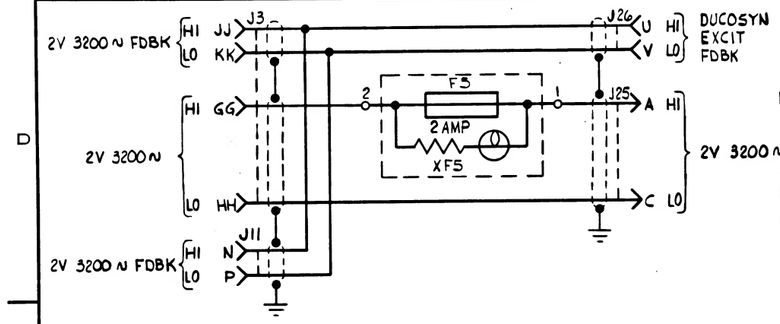
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL 2-25-65
NASA APPROVAL
MIT APPROVAL

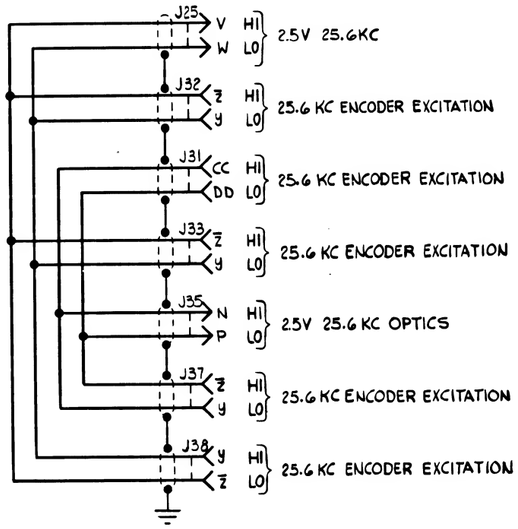
MANNED SPACECRAFT CENTER HOUSTON, TEXAS

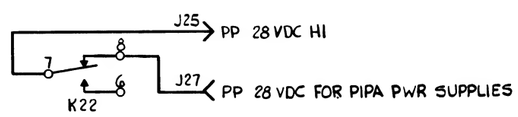
GSE JUNCTION BOX
SCHEMATIC DIAGRAM
800 CPS POWER DISTRIBUTION

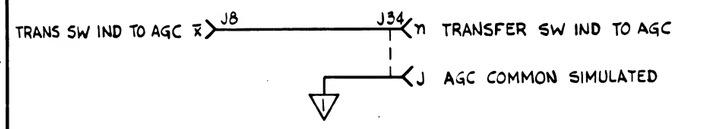
CODE IDENT NO. D | SIZE | 1902281 | SCALE — | SHEET 9 OF 245

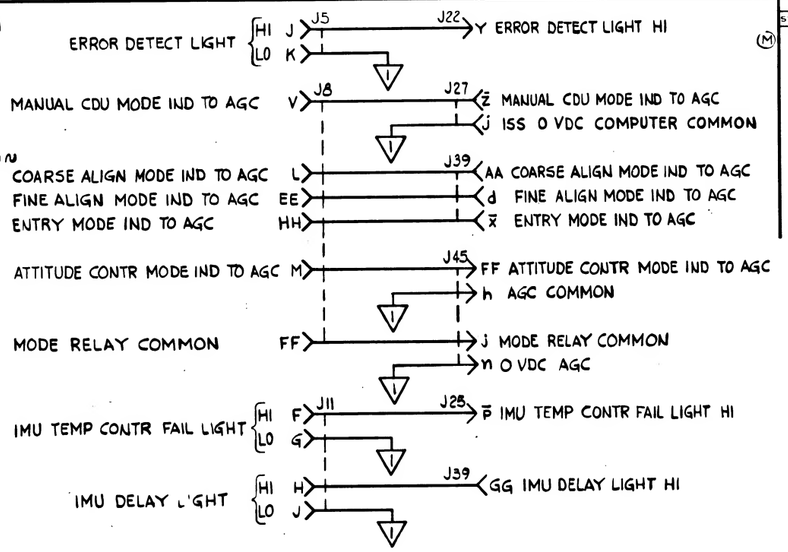
MIL 10770A

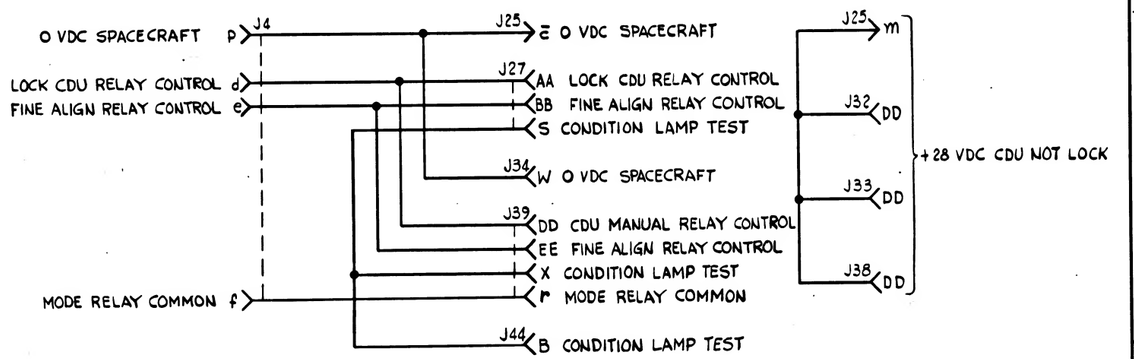








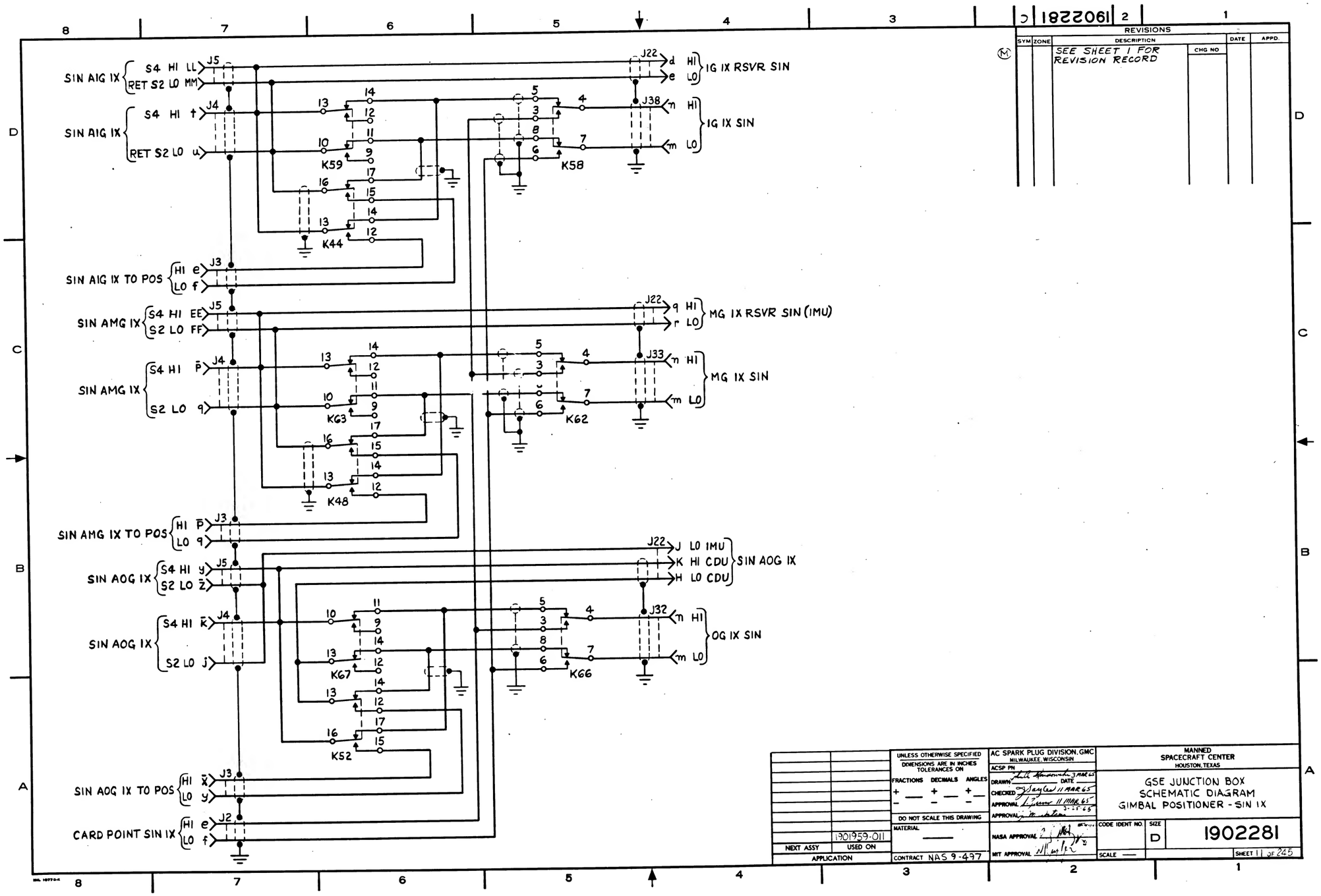


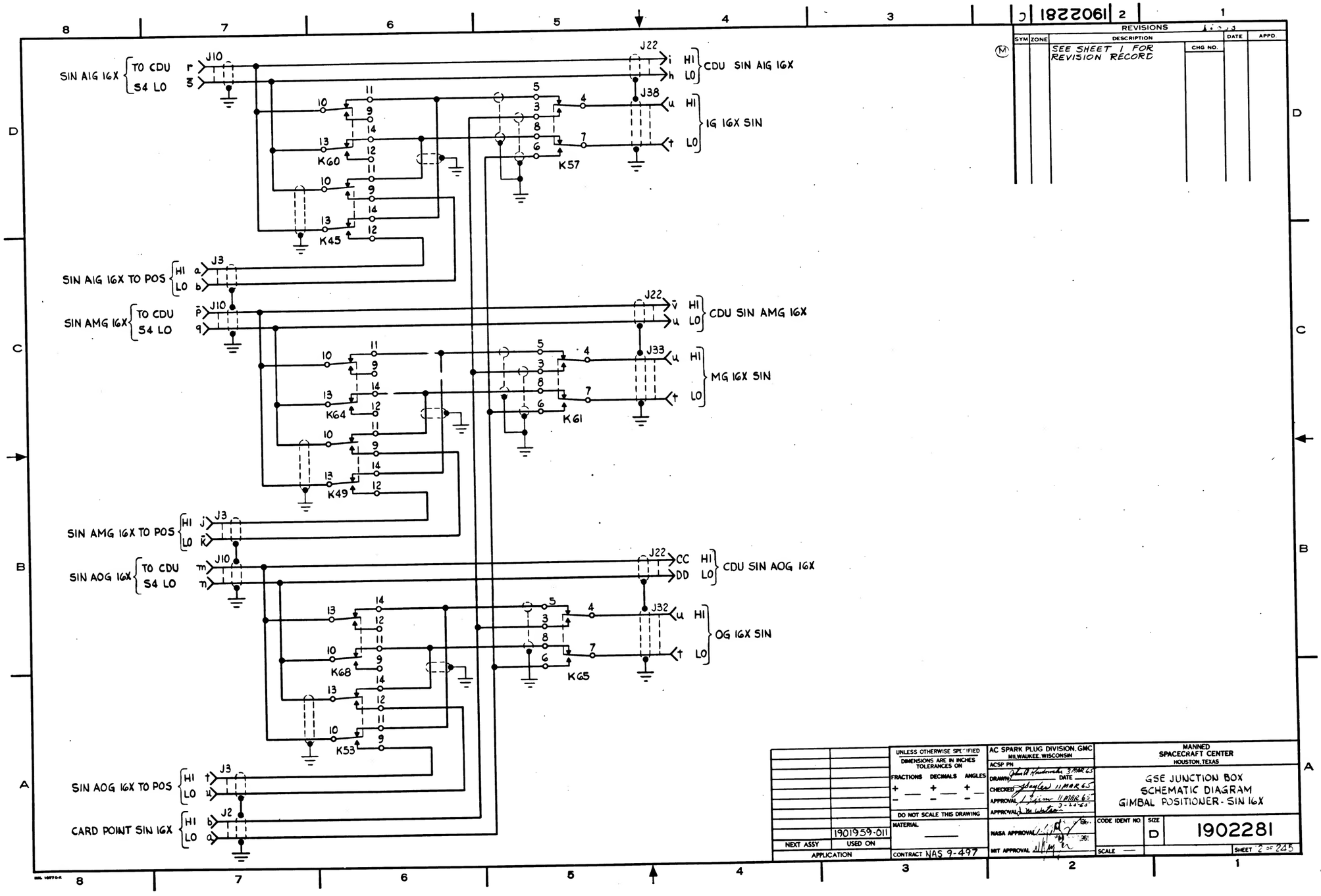


REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
(M)		SEE SHEET 1 FOR REVISION RECORD			

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		DO NOT SCALE THIS DRAWING	ACSP PN	GSE JUNCTION BOX SCHEMATIC DIAGRAM 3.2 KC-25.6KC DISTRIBUTION & MODING	
		MATERIAL —	DRAWN 3 MAR 65 DATE		
			CHECKED 11 MAR 65		
			APPROVAL 11 MAR 65		
			APPROVAL		
	1901959-011		NASA APPROVAL	CODE IDENT NO	SIZE D 1902281
NEXT ASSY	USED ON		MIT APPROVAL	SCALE —	SHEET 10 OF 245
APPLICATION		CONTRACT NAS 9-497			

1902281


SIN AIG IX
S4 HI LL
RET S2 LO MM
J5
J22
d HI
e LO
IG IX RSVR SIN
SIN AIG IX
S4 HI t
RET S2 LO u
J4
J38
n HI
m LO
IG IX SIN
K59
K58
K44
SIN AIG IX TO POS
HI e
LO f
J3
SIN AMG IX
S4 HI EE
S2 LO FF
J5
J22
q HI
r LO
MG IX RSVR SIN (IMU)
SIN AMG IX
S4 HI P
S2 LO q
J4
J33
n HI
m LO
MG IX SIN
KG3
K62
K48
SIN AMG IX TO POS
HI P
LO q
J3
SIN AOG IX
S4 HI y
S2 LO z
J5
J22
J LO IMU
K HI CDU
H LO CDU
SIN AOG IX
SIN AOG IX
S4 HI k
S2 LO j
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OG IX SIN
K67
K66
K52
SIN AOG IX TO POS
HI x
LO y
J3
CARD POINT SIN IX
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REVISIONS
SYM
ZONE
DESCRIPTION
CHG NO
DATE
APPD.
SEE SHEET 1 FOR REVISION RECORD
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
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MATERIAL
1901959-011
NEXT ASSY
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APPLICATION
CONTRACT NAS 9-497
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN
DATE
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APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - SIN IX
CODE IDENT NO.
SIZE
D
1902281
SCALE
SHEET 11 OF 245



REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

NEXT ASSY	1901959-011
USED ON	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN — DATE

CHECKED — DATE 11 MAR 65

APPROVAL — DATE 11 MAR 65

APPROVAL

NASA APPROVAL — DATE

MIT APPROVAL — DATE

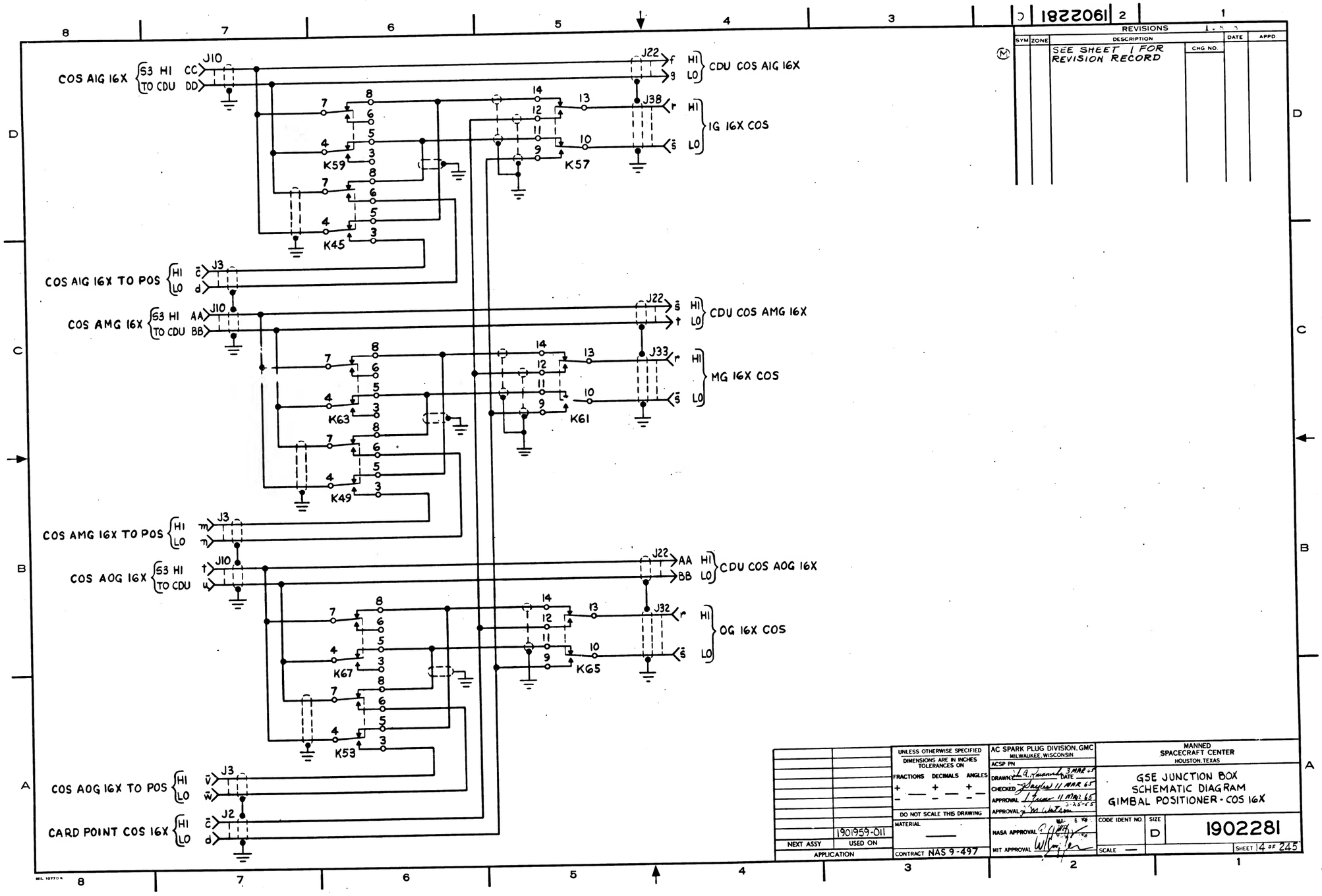
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - SIN IGX

CODE IDENT NO. | SIZE D | 1902281

SCALE — | SHEET 2 OF 225

1902281 C



REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

1902281

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

NEXT ASSY 1901959-011

USED ON

APPLICATION

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN L.G. Kuenne 3 MAR 65

CHECKED Gaylon 11 MAR 65

APPROVAL 11 MAR 65

APPROVAL 3-26-65

NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - COS 16X

CODE IDENT NO. —

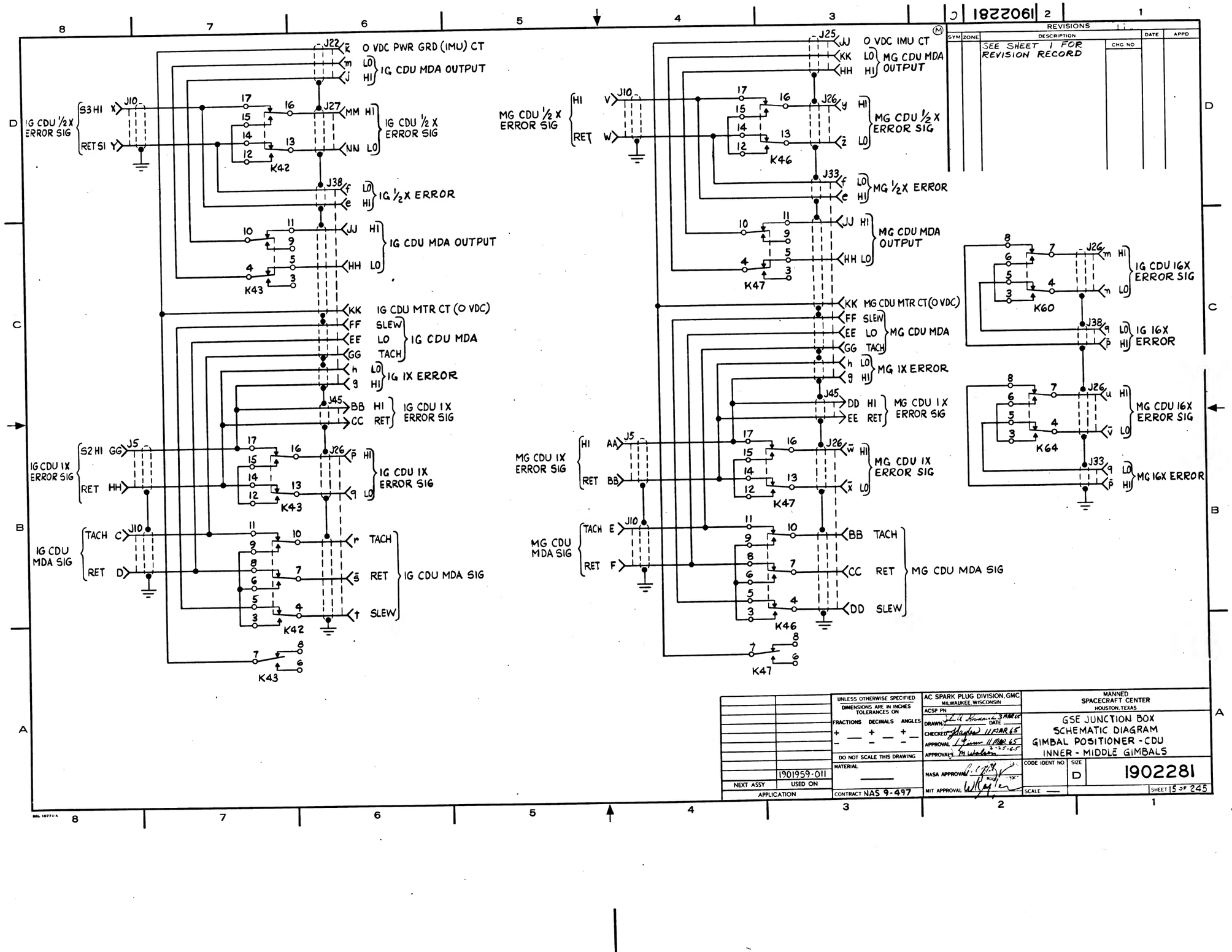
SIZE D

1902281

SCALE —

SHEET 14 OF 245

MIL 10770 K


J22 K 0 VDC PWR GRD (IMU) CT
m LO
j HI
IG CDU MDA OUTPUT
IG CDU ½X ERROR SIG
S3 HI X
RET S1 Y
J10
J27 MM HI
NN LO
K42
J38 f LO
e HI
IG ½X ERROR
JJ HI
HH LO
IG CDU MDA OUTPUT
K43
KK IG CDU MTR CT (O VDC)
FF SLEW
EE LO
GG TACH
IG CDU MDA
h LO
g HI
IG IX ERROR
J45 BB HI
CC RET
IG CDU IX ERROR SIG
IG CDU IX ERROR SIG
S2 HI GG
RET HH
J5
J26 P HI
q LO
K43
IG CDU MDA SIG
TACH C
RET D
J10
r TACH
s RET
t SLEW
IG CDU MDA SIG
K42
K43
J25 JJ 0 VDC IMU CT
KK LO
HH HI
MG CDU MDA OUTPUT
MG CDU ½X ERROR SIG
HI V
RET W
J10
J26 y HI
z LO
MG CDU ½X ERROR SIG
K46
J33 f LO
e HI
MG ½X ERROR
JJ HI
HH LO
MG CDU MDA OUTPUT
K47
KK MG CDU MTR CT (O VDC)
FF SLEW
EE LO
GG TACH
MG CDU MDA
h LO
g HI
MG IX ERROR
J45 DD HI
EE RET
MG CDU IX ERROR SIG
MG CDU IX ERROR SIG
HI AA
RET BB
J5
J26 w HI
x LO
MG CDU IX ERROR SIG
K47
MG CDU MDA SIG
TACH E
RET F
J10
BB TACH
CC RET
DD SLEW
MG CDU MDA SIG
K46
K47
J26 m HI
n LO
IG CDU IGX ERROR SIG
K60
J38 q LO
p HI
IG IGX ERROR
J26 u HI
v LO
MG CDU IGX ERROR SIG
K64
J33 q LO
p HI
MG IGX ERROR
REVISIONS
SYM ZONE DESCRIPTION CHG NO DATE APPD
SEE SHEET 1 FOR REVISION RECORD
1902281
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497
NEXT ASSY 1901959-011
USED ON
APPLICATION
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 3 MAR 65
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL 2-25-65
NASA APPROVAL
MIT APPROVAL
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - CDU
INNER - MIDDLE GIMBALS
CODE IDENT NO
SIZE D
1902281
SCALE
SHEET 15 OF 245

REVISIONS				
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

OG CDU ½X ERROR SIG (HI T, RET U) — J10
OG CDU 1X ERROR SIG (HI 4 J5, RET V)
OG CDU MDA SIG (TACH G J10, RET H)
IMU IG&Y GYRO ERROR SIG (HI/LO E, F)
X GYRO ERROR SIG (HI/LO C, D)
Z GYRO ERROR SIG (HI/LO R, S)
IMU MG ERROR SIG (HI/LO NN, PP)
IMU OG ERROR SIG (LO W, HI V)

J25: MM 0 VDC IMU CT; NN LO, LL HI — OG CDU MDA OUTPUT
J26: JJ HI, KK LO — OG CDU ½X ERROR
J32: f LO, e HI — OG ½X ERROR
J26: JJ HI, HH LO — OG CDU MDA OUTPUT
K51
KK OG CDU MTR CT (0 VDC)
FF SLEW, EE LO, GG TACH — OG CDU MDA
h LO, g HI — OG 1X ERROR
J45: w̄ HI, x̄ RET — OG CDU 1X ERROR SIG
J26: GG HI, HH LO — OG CDU 1X ERROR SIG
J10: LL TACH, MM RET, NN SLEW — OG CDU MDA SIG
K50, K51
J26: EE HI, FF LO — OG CDU 16X ERROR SIG
J32: g LO, f HI — OG 16X ERROR
K68

K55, K54, K38, K40, K41, K56, T1 (1:1)

J26: h HI, i LO — MG ERROR SIG; j HI, k LO — OG ERROR SIG; d HI, e LO — IG ERROR SIG
J22: GG HI, HH LO — IG ERROR SIG; EE HI, FF LO — X GYRO ERROR SIG; JJ HI, KK LO — Z GYRO ERROR SIG; LL HI, MM LO — MG ERROR SIG; PP LO, NN HI — OG ERROR SIG

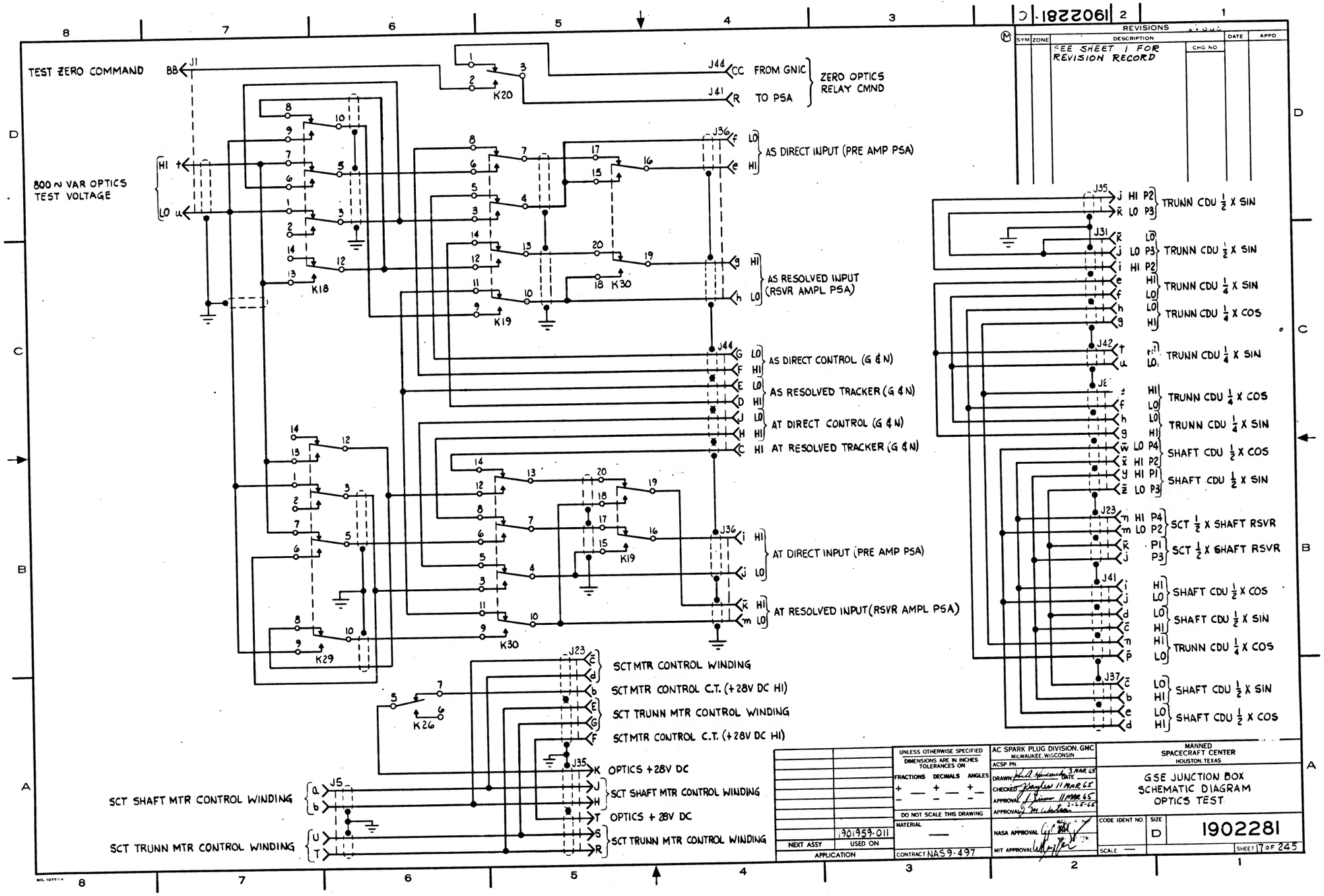
NEXT ASSY	1901959-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
USED ON		DO NOT SCALE THIS DRAWING	ACSP PN
APPLICATION		MATERIAL —	DRAWN 3 MAR 65
		CONTRACT NAS 9-497	CHECKED 11 MAR 65
			APPROVAL 11 MAR 65
			APPROVAL
			NASA APPROVAL
			MIT APPROVAL

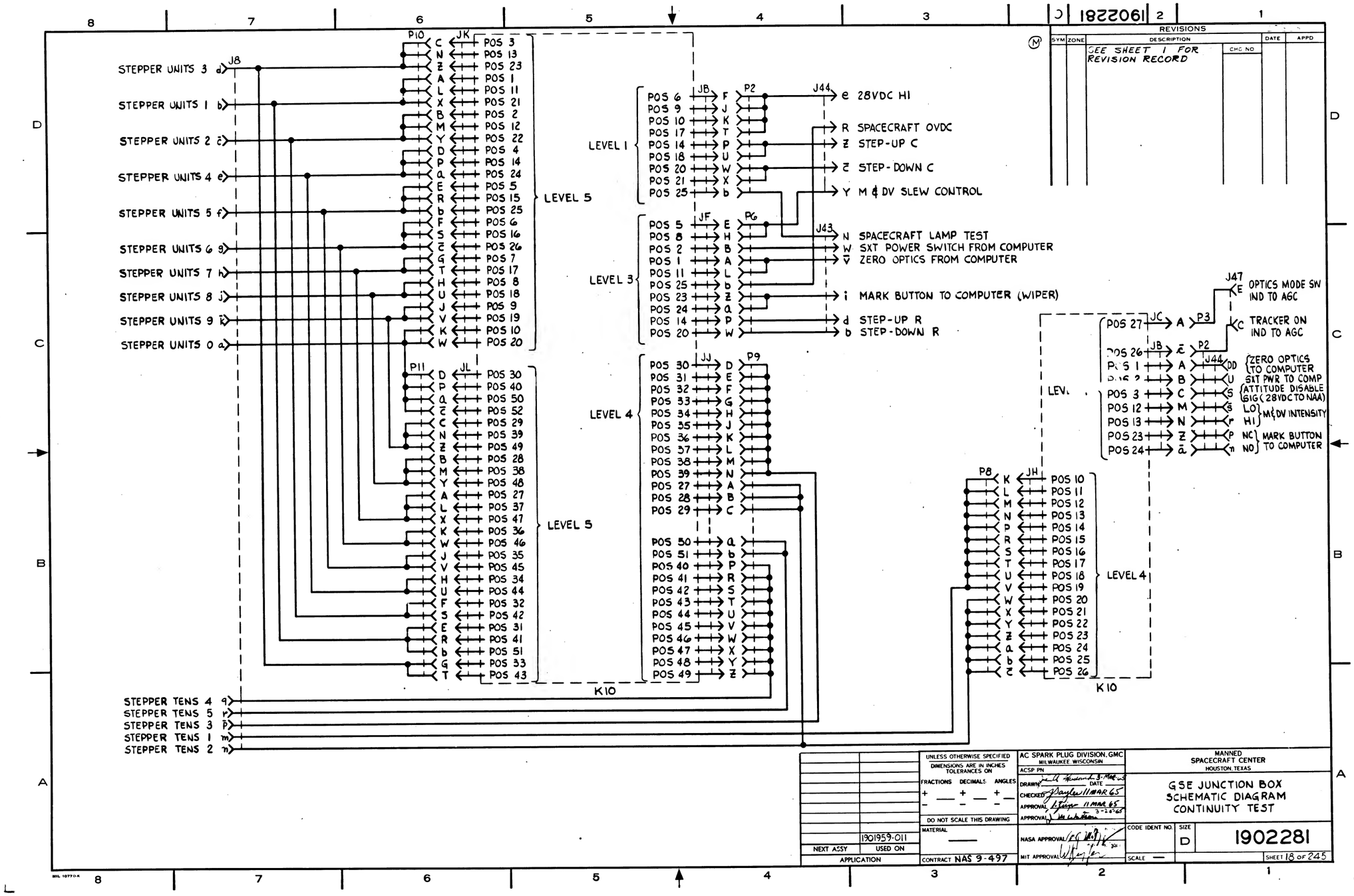
MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER-CDU OUTER GIMBAL-IRIG CAGING & IRIG TEST

CODE IDENT NO | SIZE D | 1902281 | SCALE — | SHEET 16 OF 245

BIL 10770 K


TEST ZERO COMMAND
BB J1
K20
J44 CC FROM GNIC
J41 R TO PSA
ZERO OPTICS RELAY CMND
800 ~ VAR OPTICS TEST VOLTAGE
HI t
LO u
K18
K19
K30
J36 f LO
e HI
AS DIRECT INPUT (PRE AMP PSA)
g HI
h LO
AS RESOLVED INPUT (RSVR AMPL PSA)
J44 G LO
F HI
AS DIRECT CONTROL (G & N)
E LO
D HI
AS RESOLVED TRACKER (G & N)
J LO
H HI
AT DIRECT CONTROL (G & N)
C HI
AT RESOLVED TRACKER (G & N)
K29
J36 i HI
j LO
AT DIRECT INPUT (PRE AMP PSA)
K HI
m LO
AT RESOLVED INPUT (RSVR AMPL PSA)
K26
J23 c
SCT MTR CONTROL WINDING
d
SCT MTR CONTROL C.T. (+28V DC HI)
b
E
SCT TRUNN MTR CONTROL WINDING
G
F
SCT MTR CONTROL C.T. (+28V DC HI)
J35 K OPTICS +28V DC
J
SCT SHAFT MTR CONTROL WINDING
H
T OPTICS + 28V DC
S
SCT TRUNN MTR CONTROL WINDING
R
J5 a
b
SCT SHAFT MTR CONTROL WINDING
U
T
SCT TRUNN MTR CONTROL WINDING
J35 j HI P2
K LO P3
TRUNN CDU 1/2 X SIN
J31 K LO
j LO P3
TRUNN CDU 1/2 X SIN
i HI P2
e HI
TRUNN CDU 1/4 X SIN
f LO
h LO
TRUNN CDU 1/4 X COS
g HI
J42 t HI
u LO
TRUNN CDU 1/4 X SIN
J2 r HI
f LO
TRUNN CDU 1/4 X COS
h LO
TRUNN CDU 1/4 X SIN
g HI
w LO P4
SHAFT CDU 1/2 X COS
x HI P2
y HI P1
SHAFT CDU 1/2 X SIN
z LO P3
J23 n HI P4
m LO P2
SCT 1/2 X SHAFT RSVR
k P1
j P3
SCT 1/2 X SHAFT RSVR
J41 i HI
j LO
SHAFT CDU 1/2 X COS
d LO
c HI
SHAFT CDU 1/2 X SIN
n HI
P LO
TRUNN CDU 1/4 X COS
J37 c LO
b HI
SHAFT CDU 1/2 X SIN
e LO
d HI
SHAFT CDU 1/2 X COS
REVISIONS
SYM ZONE DESCRIPTION CHG NO DATE APPD
SEE SHEET 1 FOR REVISION RECORD
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
NEXT ASSY 901959-011 USED ON
APPLICATION
CONTRACT NAS9-497
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 3 MAR 65
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL 2-28-66
NASA APPROVAL
MIT APPROVAL
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
GSE JUNCTION BOX SCHEMATIC DIAGRAM OPTICS TEST
CODE IDENT NO
SIZE D
1902281
SCALE —
SHEET 17 OF 245


REVISIONS
SYM ZONE DESCRIPTION CHG NO DATE APPD
SEE SHEET 1 FOR REVISION RECORD
1902281
STEPPER UNITS 3 d
STEPPER UNITS 1 b
STEPPER UNITS 2 c
STEPPER UNITS 4 e
STEPPER UNITS 5 f
STEPPER UNITS 6 g
STEPPER UNITS 7 h
STEPPER UNITS 8 j
STEPPER UNITS 9 k
STEPPER UNITS 0 a
STEPPER TENS 4 q
STEPPER TENS 5 r
STEPPER TENS 3 p
STEPPER TENS 1 m
STEPPER TENS 2 n
J8
P10 JK
P11 JL
LEVEL 5
K10
LEVEL 1
LEVEL 3
LEVEL 4
JB P2 J44
JF P6 J43
JJ P9
JC P3 J47
JH P8
e 28VDC HI
R SPACECRAFT OVDC
z STEP-UP C
z̄ STEP-DOWN C
Y M & DV SLEW CONTROL
N SPACECRAFT LAMP TEST
W SXT POWER SWITCH FROM COMPUTER
v̄ ZERO OPTICS FROM COMPUTER
i MARK BUTTON TO COMPUTER (WIPER)
d STEP-UP R
b STEP-DOWN R
E OPTICS MODE SW IND TO AGC
C TRACKER ON IND TO AGC
DD ZERO OPTICS TO COMPUTER
U SXT PWR TO COMP
S ATTITUDE DISABLE SIG (28VDC TO NAA)
M & DV INTENSITY LO
r HI
P NC
n NO MARK BUTTON TO COMPUTER
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497
NEXT ASSY 1901959-011
USED ON
APPLICATION
AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN
ACSP PN
DRAWN DATE
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL
NASA APPROVAL
MIT APPROVAL
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
GSE JUNCTION BOX SCHEMATIC DIAGRAM CONTINUITY TEST
CODE IDENT NO. SIZE D 1902281
SCALE —
SHEET 18 OF 245
MIL 1077 D-A

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	A1 (SEE TB1)				
	A2 (SEE TB12)				
	E2 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E2	T1-1		ISOLATION TRANSFORMER INPUT, TERM. 1		2
E2	K56-6	A 905L	ISOLATION TRANSFORMER INPUT TERM. 1	24	2
E2	E5	AA125	ISOLATION TRANSFORMER INPUT-OUTPUT COMMON	24	2
	E3 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E3	T1-2		ISOLATION TRANSFORMER INPUT, TERM. 2		4
E3	K56-9	A 905R	ISOLATION TRANSFORMER INPUT TERM. 2	24	4
	E4 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E4	T1-3		ISOLATION TRANSFORMER OUTPUT, TERM. 3		5
E4	K56-3	A 904W	ISOLATION TRANSFORMER OUTPUT TERM. 3	24	5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 19 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	E5 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E5	T1-4		ISOLATION TRANSFORMER OUTPUT, TERM. 4		2
E5	E2	AA125	ISOLATION TRANSFORMER INPUT-OUTPUT COMMON	24	2
	E6 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E6	J3-HH	A 59L	3200 CPS 2V LO	20	6
E6	J25-C	A1108L	DUCOSYN SIM. LOAD LO	20	6
	E15 STANDOFF SE20XD01 MIL-T-55155 (1896962-003)				
E15	K4-2	A 738	OPTICS 28 VDC HI	16	1
E15	K6-10	A1048	OPTICS 28 VDC HI	16	1
E15	TB11-20C	A1142	OPTICS 28 VDC HI	20	1
	E20 SPLICE REDUCER (1016006-003)				
E20B	E20BB		JUMPER STRAP		3
E20B	SHLD A7	A 7A	SHIELD GROUND	22	3
E20B	SHLD A10	A 10A	SHIELD GROUND	22	3
E20B	SHLD A13	A 13A	SHIELD GROUND	22	3
E20B	SHLD A14	A 14A	SHIELD GROUND	22	3
E20B	J6-A	A 112	CABLE W29 SHIELD GROUND	20	3
E20B	SHLD A139	A 139A	SHIELD GROUND	22	3
E20BB	E20B		JUMPER STRAP		3
E20BB	E80B	A 981	SHIELD GROUND	20	3

MANNED SPACECRAFT CEN HOUSTON, AS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 20 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	E21 SPLICE REDUCER (1016006-003)				
E21B	E21BB		JUMPER STRAP		3
E21B	SHLD A21	A 21A	SHIELD GROUND	22	3
E21B	SHLD A23	A 23A	SHIELD GROUND	22	3
E21B	SHLD A24	A 24A	SHIELD GROUND	22	3
E21B	SHLD A25	A 25A	SHIELD GROUND	22	3
E21B	SHLD A26	A 26A	SHIELD GROUND	22	3
E21BB	E21B		JUMPER STRAP		3
E21BB	E79B	A 982	SHIELD GROUND	20	3
	E22 SPLICE REDUCER (1016006-003)				
E22B	E22BB		JUMPER STRAP		3
E22B	SHLD A28	A 28A	SHIELD GROUND	22	3
E22B	SHLD A29	A 29A	SHIELD GROUND	22	3
E22B	SHLD A30	A 30A	SHIELD GROUND	22	3
E22B	SHLD A31	A 31A	SHIELD GROUND	22	3
E22B	SHLD A32	A 32A	SHIELD GROUND	22	3
E22B	SHLD A33	A 33A	SHIELD GROUND	22	3
E22B	SHLD A35	A 35A	SHIELD GROUND	22	3
E22BB	E22B		JUMPER STRAP		3
E22BB	E79B	A 983	SHIELD GROUND	20	3
	E23 SPLICE REDUCER (1016006-003)				
E23B	E23BB		JUMPER STRAP		3
E23B	SHLD A36	A 36A	SHIELD GROUND	22	3
E23B	SHLD A37	A 37A	SHIELD GROUND	22	3
E23B	SHLD A38	A 38A	SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 21 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.)	E23 SPLICE REDUCER (1016006-003)				
E23B	SHLD A39	A 39A	SHIELD GROUND	22	3
E23B	SHLD A40	A 40A	SHIELD GROUND	22	3
E23B	SHLD A41	A 41A	SHIELD GROUND	22	3
E23BB	E23B		JUMPER STRAP		3
E23BB	E79B	A 984	SHIELD GROUND	20	3
	E24 SPLICE REDUCER (1016006-002)				
E24B	E24BB		JUMPER STRAP		3
E24B	SHLD A45	A 45A	SHIELD GROUND	22	3
E24B	SHLD A46	A 46A	SHIELD GROUND	22	3
E24B	SHLD A47	A 47A	SHIELD GROUND	22	3
E24B	SHLD A48	A 48A	SHIELD GROUND	22	3
E24B	SHLD A49	A 49A	SHIELD GROUND	22	3
E24B	SHLD A50	A 50A	SHIELD GROUND	22	3
E24B	SHLD A51	A 51A	SHIELD GROUND	22	3
E24B	SHLD A52	A 52A	SHIELD GROUND	22	3
E24B	SHLD A1110	A1110A	SHIELD GROUND	22	3
E24BB	E24B		JUMPER STRAP		3
E24BB	E79B	A 985	SHIELD GROUND	20	3
	E25 SPLICE REDUCER (1016006-002)				
E25B	E25BB		JUMPER STRAP		3
E25B	SHLD A53	A 53A	SHIELD GROUND	22	3
E25B	SHLD A54	A 54A	SHIELD GROUND	22	3
E25B	SHLD A55	A 55A	SHIELD GROUND	22	3
E25B	SHLD A56	A 56A	SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 22 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E25	SPLICE REDUCER (1016006-002)				
E25B	SHLD A59	A 59A	SHIELD GROUND	22	3
E25B	SHLD A60	A 60A	SHIELD GROUND	22	3
E25BB	E25B		JUMPER STRAP		3
E25BB	E79B	A 986	SHIELD GROUND	20	3
E26	SPLICE REDUCER (1016006-003)				
E26B	E26BB		JUMPER STRAP		3
E26B	SHLD A62	A 62A	SHIELD GROUND	22	3
E26B	SHLD A63	A 63A	SHIELD GROUND	22	3
E26B	SHLD A64	A 64A	SHIELD GROUND	22	3
E26B	SHLD A65	A 65A	SHIELD GROUND	22	3
E26B	SHLD A66	A 66A	SHIELD GROUND	22	3
E26B	SHLD A70	A 70A	SHIELD GROUND	22	3
E26B	SHLD A71	A 71A	SHIELD GROUND	22	3
E26B	SHLD A72	A 72A	SHIELD GROUND	22	3
E26BB	E26B		JUMPER STRAP		3
E26BB	E31B	A 987	SHIELD GROUND	20	3
E27	SPLICE REDUCER (1016006-003)				
E27B	E27BB		JUMPER STRAP		3
E27B	SHLD A73	A 73A	SHIELD GROUND	22	3
E27B	SHLD A74	A 74A	SHIELD GROUND	22	3
E27B	SHLD A75	A 75A	SHIELD GROUND	22	3
E27B	SHLD A76	A 76A	SHIELD GROUND	22	3
E27B	SHLD A77	A 77A	SHIELD GROUND	22	3
E27B	SHLD A78	A 78A	SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 23 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E27	SPLICE REDUCER (1016006-003)				
E27B	SHLD A79	A 79A	SHIELD GROUND	22	3
E27B	SHLD A80	A 80A	SHIELD GROUND	22	3
E27BB	E27B		JUMPER STRAP		3
E27BB	E31B	A 988	SHIELD GROUND	20	3
E28	SPLICE REDUCER (1016006-003)				
E28B	E28BB		JUMPER STRAP		3
E28B	SHLD A85	A 85A	SHIELD GROUND	22	3
E28B	SHLD A86	A 86A	SHIELD GROUND	22	3
E28B	SHLD A89	A 89A	SHIELD GROUND	22	3
E28B	SHLD A90	A 90A	SHIELD GROUND	22	3
E28B	SHLD A91	A 91A	SHIELD GROUND	22	3
E28B	SHLD A92	A 92A	SHIELD GROUND	22	3
E28B	SHLD A93	A 93A	SHIELD GROUND	22	3
E28B	SHLD A94	A 94A	SHIELD GROUND	22	3
E28B	SHLD A95	A 95A	SHIELD GROUND	22	3
E28BB	E28B		JUMPER STRAP		3
E28BB	E31B	A 989	SHIELD GROUND	20	3
E29	SPLICE REDUCER (1016006-003)				
E29B	E29BB		JUMPER STRAP		3
E29B	SHLD A96	A 96A	SHIELD GROUND	22	3
E29B	SHLD A97	A 97A	SHIELD GROUND	22	3
E29B	SHLD A98	A 98A	SHIELD GROUND	22	3
E29B	SHLD A99	A 99A	SHIELD GROUND	22	3
E29B	SHLD A100	A 100A	SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 24 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E29	SPLICE REDUCER (1016006-003)				
E29B	SHLD A101	A 101A	SHIELD GROUND	22	3
E29B	SHLD A102	A 102A	SHIELD GROUND	22	3
E29B	SHLD A103	A 103A	SHIELD GROUND	22	3
E29BB	E29B		JUMPER STRAP		3
E29BB	E31B	A 990	SHIELD GROUND	20	3
E30	SPLICE REDUCER (1016006-003)				
E30B	E30BB		JUMPER STRAP		3
E30B	SHLD A104	A 104A	SHIELD GROUND	22	3
E30B	SHLD A105	A 105A	SHIELD GROUND	22	3
E30B	SHLD A106	A 106A	SHIELD GROUND	22	3
E30B	SHLD A107	A 107A	SHIELD GROUND	22	3
E30B	SHLD A108	A 108A	SHIELD GROUND	22	3
E30B	SHLD A109	A 109A	SHIELD GROUND	22	3
E30B	SHLD A110	A 110A	SHIELD GROUND	22	3
E30B	SHLD A111	A 111A	SHIELD GROUND	22	3
E30BB	E30B		JUMPER STRAP		3
E30BB	E31B	A 991	SHIELD GROUND	20	3
E31	SPLICE REDUCER (1016006-003)				
E31B	E31BB		JUMPER STRAP		3
E31B	E26BB	A 987	SHIELD GROUND	20	3
E31B	E27BB	A 988	SHIELD GROUND	20	3
E31B	E28BB	A 989	SHIELD GROUND	20	3
E31B	E29BB	A 990	SHIELD GROUND	20	3
E31B	E30BB	A 991	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E31	SPLICE REDUCER (1016006-003)				
E31BB	E31B		JUMPER STRAP		3
E31BB	T815-6	A 992	SHIELD GROUND	16	3
E32	SPLICE REDUCER (1016006-003)				
E32B	E32BB		JUMPER STRAP		3
E32B	SHLD A232	A 232A	SHIELD GROUND	22	3
E32B	SHLD A233	A 233A	SHIELD GROUND	22	3
E32B	SHLD A234	A 234A	SHIELD GROUND	22	3
E32B	SHLD A236	A 236A	SHIELD GROUND	22	3
E32B	SHLD A237	A 237A	SHIELD GROUND	22	3
E32B	SHLD A238	A 238A	SHIELD GROUND	22	3
E32B	SHLD A239	A 239A	SHIELD GROUND	22	3
E32B	SHLD A240	A 240A	SHIELD GROUND	22	3
E32B	SHLD A1132	A1132A	SHIELD GROUND	22	3
E32B	SHLD A1134	A1134A	SHIELD GROUND	22	3
E32BB	E32B		JUMPER STRAP		3
E32BB	E80B	A 993	SHIELD GROUND	20	3
E33	SPLICE REDUCER (1016006-003)				
E33B	E33BB		JUMPER STRAP		3
E33B	SHLD A241	A 241A	SHIELD GROUND	22	3
E33B	SHLD A242	A 242A	SHIELD GROUND	22	3
E33B	SHLD A243	A 243A	SHIELD GROUND	22	3
E33B	SHLD A244	A 244A	SHIELD GROUND	22	3
E33B	SHLD A1055	A1055A	SHIELD GROUND	22	3
E33B	SHLD A1056	A1056A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E33	SPLICE REDUCER (1016006-003)				
E33B	SHLD	A1057	A1057A SHIELD GROUND	22	3
E33B	SHLD	A1123	A1123A SHIELD GROUND	22	3
E33B	SHLD	A1156	A1156A SHIELD GROUND	22	3
E33BB	E33B		JUMPER STRAP		3
E33BB	E80B		A 994 SHIELD GROUND	20	3
E34	SPLICE REDUCER (1016006-003)				
E34B	E34BB		JUMPER STRAP		3
E34B	SHLD	A249	A 249A SHIELD GROUND	22	3
E34B	SHLD	A251	A 251A SHIELD GROUND	22	3
E34B	SHLD	A255	A 255A SHIELD GROUND	22	3
E34B	SHLD	A256	A 256A SHIELD GROUND	22	3
E34B	SHLD	A257	A 257A SHIELD GROUND	22	3
E34B	SHLD	A258	A 258A SHIELD GROUND	22	3
E34B	SHLD	A259	A 259A SHIELD GROUND	22	3
E34B	SHLD	A260	A 260A SHIELD GROUND	22	3
E34B	SHLD	A280	A 280A SHIELD GROUND	22	3
E34B	SHLD	A281	A 281A SHIELD GROUND	22	3
E34BB	E34B		JUMPER STRAP		3
E34BB	E80B		A 995 SHIELD GROUND	20	3
E35	SPLICE REDUCER (1016006-002)				
E35B	E35BB		JUMPER STRAP		3
E35B	SHLD	A291	A 291A SHIELD GROUND	22	3
E35B	SHLD	A292	A 292A SHIELD GROUND	22	3
E35B	SHLD	A293	A 293A SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E35	SPLICE REDUCER (1016006-002)				
E35B	SHLD	A296	A 296A SHIELD GROUND	22	3
E35BB	E35B		JUMPER STRAP		3
E35BB	E80B		A 996 SHIELD GROUND	20	3
E36	SPLICE REDUCER (1016006-002)				
E36B	E36BB		JUMPER STRAP		3
E36B	SHLD	A268	A 268A SHIELD GROUND	22	3
E36B	SHLD	A313	A 313A SHIELD GROUND	22	3
E36B	SHLD	A314	A 314A SHIELD GROUND	22	3
E36B	SHLD	A315	A 315A SHIELD GROUND	22	3
E36B	SHLD	A316	A 316A SHIELD GROUND	22	3
E36BB	E36B		JUMPER STRAP		3
E36BB	E39B		A 997 SHIELD GROUND	20	3
E37	SPLICE REDUCER (1016006-003)				
E37B	E37BB		JUMPER STRAP		3
E37B	J22-B		A 310 CABLE W38 SHIELD BND	20	3
E37B	SHLD	A311	A 311A SHIELD GROUND	22	3
E37B	SHLD	A317	A 317A SHIELD GROUND	22	3
E37B	SHLD	A318	A 318A SHIELD GROUND	22	3
E37B	SHLD	A319	A 319A SHIELD GROUND	22	3
E37B	SHLD	A320	A 320A SHIELD GROUND	22	3
E37B	SHLD	A321	A 321A SHIELD GROUND	22	3
E37B	SHLD	A323	A 323A SHIELD GROUND	22	3
E37BB	E37B		JUMPER STRAP		3
E37BB	E39B		A 998 SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
E38	SPLICE REDUCER (1016006-002)				
E38B	E38BB		JUMPER STRAP		3
E38B	SHLD	A324	A 324A SHIELD GROUND	22	3
E38B	SHLD	A325	A 325A SHIELD GROUND	22	3
E38B	SHLD	A326	A 326A SHIELD GROUND	22	3
E38B	SHLD	A327	A 327A SHIELD GROUND	22	3
E38B	SHLD	A328	A 328A SHIELD GROUND	22	3
E38B	SHLD	A329	A 329A SHIELD GROUND	22	3
E38B	SHLD	A330	A 330A SHIELD GROUND	22	3
E38BB	E38B		JUMPER STRAP		3
E38BB	E39B		A 999 SHIELD GROUND	20	3
E39	SPLICE REDUCER (1016006-002)				
E39B	E39BB		JUMPER STRAP		3
E39B	E36BB		A 997 SHIELD GROUND	20	3
E39B	E37BB		A 998 SHIELD GROUND	20	3
E39B	E38BB		A 999 SHIELD GROUND	20	3
E39B	E43BB		A1051 SHIELD GROUND	20	3
E39B	E44BB		A1052 SHIELD GROUND	20	3
E39BB	E39B		JUMPER STRAP		3
E39BB	TB15-8		A1000 SHIELD GROUND	16	3
E40	SPLICE REDUCER (1016006-002)				
E40B	E40BB		JUMPER STRAP		3
E40B	E41BB		A1002 SHIELD GROUND	20	3
E40B	E42BB		A1003 SHIELD GROUND	20	3
E40B	E89B		A1004 SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E40	SPLICE REDUCER (1016006-002)				
E40B	E90BB		A1005 SHIELD GROUND	20	3
E40B	E93BB		A1074 SHIELD GROUND	20	3
E40BB	E40B		JUMPER STRAP		3
E40BB	TB15-9		A1001 SHIELD GROUND	16	3
E41	SPLICE REDUCER (1016006-003)				
E41B	E41BB		JUMPER STRAP		3
E41B	SHLD	A350	A 350A SHIELD GROUND	22	3
E41B	SHLD	A351	A 351A SHIELD GROUND	22	3
E41B	SHLD	A352	A 352A SHIELD GROUND	22	3
E41B	SHLD	A360	A 360A SHIELD GROUND	22	3
E41B	SHLD	A361	A 361A SHIELD GROUND	22	3
E41B	SHLD	A362	A 362A SHIELD GROUND	22	3
E41B	SHLD	A363	A 363A SHIELD GROUND	22	3
E41B	SHLD	A364	A 364A SHIELD GROUND	22	3
E41B	SHLD	A365	A 365A SHIELD GROUND	22	3
E41BB	E41B		JUMPER STRAP		3
E41BB	E40B		A1002 SHIELD GROUND	20	3
E42	SPLICE REDUCER (1016006-003)				
E42B	E42BB		JUMPER STRAP		3
E42B	SHLD	A349	A 349A SHIELD GROUND	22	3
E42B	SHLD	A366	A 366A SHIELD GROUND	22	3
E42B	SHLD	A368	A 368A SHIELD GROUND	22	3
E42B	SHLD	A369	A 369A SHIELD GROUND	22	3
E42B	SHLD	A370	A 370A SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E42	SPLICE REDUCER (1016006-003)				
E42B	SHLD A371	A 371A	SHIELD GROUND	22	3
E42B	SHLD A372	A 372A	SHIELD GROUND	22	3
E42B	SHLD A375	A 375A	SHIELD GROUND	22	3
E42BB	E42B		JUMPER STRAP		3
E42BB	E40B	A1003	SHIELD GROUND	20	3
E43	SPLICE REDUCER (1016006-002)				
E43B	E43BB		JUMPER STRAP		3
E43B	J25-B	A 376	CABLE W39 SHIELD GROUND	20	3
E43B	SHLD A383	A 383A	SHIELD GROUND	22	3
E43B	SHLD A385	A 385A	SHIELD GROUND	22	3
E43B	SHLD A386	A 386A	SHIELD GROUND	22	3
E43B	SHLD A388	A 388A	SHIELD GROUND	22	3
E43BB	E43B		JUMPER STRAP		3
E43BB	E39B	A1051	SHIELD GROUND	20	3
E44	SPLICE REDUCER (1016006-002)				
E44B	E44BB		JUMPER STRAP		3
E44B	SHLD A377	A 377A	SHIELD GROUND	22	3
E44B	SHLD A378	A 378A	SHIELD GROUND	22	3
E44B	SHLD A379	A 379A	SHIELD GROUND	22	3
E44B	SHLD A380	A 380A	SHIELD GROUND	22	3
E44B	SHLD A394	A 394A	SHIELD GROUND	22	3
E44B	SHLD A395	A 395A	SHIELD GROUND	22	3
E44BB	E44B		JUMPER STRAP		3
E44BB	E39B	A1052	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
E45	SPLICE REDUCER (1016006-002)				
E45B	E45BB		JUMPER STRAP		3
E45B	SHLD A401	A 401A	SHIELD GROUND	22	3
E45B	SHLD A402	A 402A	SHIELD GROUND	22	3
E45B	SHLD A405	A 405A	SHIELD GROUND	22	3
E45BB	E45B		JUMPER STRAP		3
E45BB	E49B	A1006	SHIELD GROUND	20	3
E46	SPLICE REDUCER (1016006-002)				
E46B	E46BB		JUMPER STRAP		3
E46B	SHLD A407	A 407A	SHIELD GROUND	22	3
E46B	SHLD A408	A 408A	SHIELD GROUND	22	3
E46B	SHLD A409	A 409A	SHIELD GROUND	22	3
E46B	SHLD A410	A 410A	SHIELD GROUND	22	3
E46B	SHLD A411	A 411A	SHIELD GROUND	22	3
E46B	SHLD A412	A 412A	SHIELD GROUND	22	3
E46B	SHLD A413	A 413A	SHIELD GROUND		3
E46BB	E46B		JUMPER STRAP		3
E46BB	E49B	A1007	SHIELD GROUND	20	3
E47	SPLICE REDUCER (1016006-002)				
E47B	E47BB		JUMPER STRAP		3
E47B	J26-B	A 397	CABLE W40 SHIELD GROUND	20	3
E47B	SHLD A414	A 414A	SHIELD GROUND	22	3
E47B	SHLD A415	A 415A	SHIELD GROUND	22	3
E47B	SHLD A416	A 416A	SHIELD GROUND	22	3
E47B	SHLD A417	A 417A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E47	SPLICE REDUCER (1016006-002)				
E47B	SHLD A418	A 418A	SHIELD GROUND	22	3
E47B	SHLD A419	A 419A	SHIELD GROUND	22	3
E47BB	E47B		JUMPER STRAP		3
E47BB	E49B	A1008	SHIELD GROUND	20	3
E48	SPLICE REDUCER (1016006-003)				
E48B	E48BB		JUMPER STRAP		3
E48B	J27-B	A 420	CABLE W42 SHIELD GROUND	20	3
E48B	SHLD A428	A 428A	SHIELD GROUND	22	3
E48B	SHLD A436	A 436A	SHIELD GROUND	22	3
E48B	SHLD A437	A 437A	SHIELD GROUND	22	3
E48B	SHLD A438	A 438A	SHIELD GROUND	22	3
E48B	SHLD A439	A 439A	SHIELD GROUND	22	3
E48B	SHLD A449	A 449A	SHIELD GROUND	22	3
E48B	SHLD A1107	A1107A	SHIELD GROUND	22	3
E48B	SHLD A1108	A1108A	SHIELD GROUND		3
E48BB	E48B		JUMPER STRAP		3
E48BB	E49B	A1009	SHIELD GROUND	20	3
E48B	SHLD A1196	A1196A	SHIELD GROUND	22	3
E49	SPLICE REDUCER (1016006-002)				
E49B	E49BB		JUMPER STRAP		3
E49B	E45BB	A1006	SHIELD GROUND	20	3
E49B	E46BB	A1007	SHIELD GROUND	20	3
E49B	E47BB	A1008	SHIELD GROUND	20	3
E49B	E48BB	A1009	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E49	SPLICE REDUCER (1016006-002)				
E49BB	E49B		JUMPER STRAP		3
E49BB	TB15-10	A1010	SHIELD GROUND	20	3
E50	SPLICE REDUCER (1016006-003)				
E50B	E50BB		JUMPER STRAP		3
E50B	J31-B	A 457	CABLE W46 SHIELD GROUND	20	3
E50B	SHLD A459	A 459A	SHIELD GROUND	22	3
E50B	SHLD A460	A 460A	SHIELD GROUND	22	3
E50B	SHLD A461	A 461A	SHIELD GROUND	22	3
E50B	SHLD A462	A 462A	SHIELD GROUND	22	3
E50B	SHLD A463	A 463A	SHIELD GROUND	22	3
E50B	SHLD A464	A 464A	SHIELD GROUND	22	3
E50B	SHLD A465	A 465A	SHIELD GROUND	22	3
E50B	SHLD A466	A 466A	SHIELD GROUND	22	3
E50B	SHLD A468	A 468A	SHIELD GROUND		3
E50BB	E50B		JUMPER STRAP		3
E50BB	E81B	A1011	SHIELD GROUND	20	3
E51	SPLICE REDUCER (1016006-002)				
E51B	E51BB		JUMPER STRAP		3
E51B	SHLD A469	A 469A	SHIELD GROUND	22	3
E51B	SHLD A470	A 470A	SHIELD GROUND	22	3
E51B	SHLD A472	A 472A	SHIELD GROUND	22	3
E51B	SHLD A473	A 473A	SHIELD GROUND	22	3
E51B	SHLD A476	A 476A	SHIELD GROUND	22	3
E51B	SHLD A478	A 478A	SHIELD GROUND		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E51	SPLICE REDUCER (1016006-002)				
E51B	SHLD A1138	A1138A	SHIELD GROUND	22	3
E51BB	E51B		JUMPER STRAP		3
E51BB	E81B	A1012	SHIELD GROUND	20	3
E52	SPLICE REDUCER (1016006-003)				
E52B	E52BB		JUMPER STRAP		3
E52B	J32-B	A 480	CABLE W47 SHIELD GROUND	20	3
E52B	SHLD A483	A 483A	SHIELD GROUND	22	3
E52B	SHLD A484	A 484A	SHIELD GROUND	22	3
E52B	SHLD A485	A 485A	SHIELD GROUND	22	3
E52B	SHLD A486	A 486A	SHIELD GROUND	22	3
E52B	SHLD A487	A 487A	SHIELD GROUND	22	3
E52B	SHLD A488	A 488A	SHIELD GROUND	22	3
E52B	SHLD A489	A 489A	SHIELD GROUND		3
E52BB	E52B		JUMPER STRAP	20	3
E52BB	E81B	A1013	SHIELD GROUND		
E53	SPLICE REDUCER (1016006-002)				
E53B	E53BB		JUMPER STRAP		3
E53B	SHLD A490	A 490A	SHIELD GROUND	22	3
E53B	SHLD A491	A 491A	SHIELD GROUND	22	3
E53B	SHLD A492	A 492A	SHIELD GROUND	22	3
E53B	SHLD A495	A 495A	SHIELD GROUND	22	3
E53B	SHLD A496	A 496A	SHIELD GROUND	22	3
E53B	SHLD A497	A 497A	SHIELD GROUND	22	3
E53B	SHLD A498	A 498A	SHIELD GROUND		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E53	SPLICE REDUCER (1016006-002)				
E53B	SHLD A499	A 499A	SHIELD GROUND	22	3
E53BB	E53B		JUMPER STRAP		3
E53BB	E81B	A1014	SHIELD GROUND	20	3
E54	SPLICE REDUCER (1016006-003)				
E54B	E54BB		JUMPER STRAP		3
E54B	J33-B	A 501	CABLE W48 SHIELD GROUND	20	3
E54B	SHLD A504	A 504A	SHIELD GROUND	22	3
E54B	SHLD A505	A 505A	SHIELD GROUND	22	3
E54B	SHLD A506	A 506A	SHIELD GROUND	22	3
E54B	SHLD A507	A 507A	SHIELD GROUND	22	3
E54B	SHLD A508	A 508A	SHIELD GROUND	22	3
E54B	SHLD A509	A 509A	SHIELD GROUND	22	3
E54B	SHLD A510	A 510A	SHIELD GROUND	22	3
E54B	SHLD A511	A 511A	SHIELD GROUND	22	3
E54B	SHLD A513	A 513A	SHIELD GROUND		3
E54BB	E54B		JUMPER STRAP	20	3
E54BB	E81B	A1015	SHIELD GROUND		
E55	SPLICE REDUCER (1016006-003)				
E55B	E55BB		JUMPER STRAP		3
E55B	SHLD A512	A 512A	SHIELD GROUND	22	3
E55B	SHLD A516	A 516A	SHIELD GROUND	22	3
E55B	SHLD A517	A 517A	SHIELD GROUND	22	3
E55B	SHLD A518	A 518A	SHIELD GROUND	22	3
E55B	SHLD A519	A 519A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E55	SPLICE REDUCER (1016006-003)				
E55B	SHLD A520	A 520A	SHIELD GROUND	22	3
E55BB	E55B		JUMPER STRAP		3
E55BB	E82B	A1016	SHIELD GROUND	20	3
E56	SPLICE REDUCER (1016006-003)				
E56B	E56BB		JUMPER STRAP		3
E56B	SHLD A523	A 523A	SHIELD GROUND	22	3
E56B	SHLD A524	A 524A	SHIELD GROUND	22	3
E56B	SHLD A529	A 529A	SHIELD GROUND	22	3
E56B	SHLD A530	A 530A	SHIELD GROUND	22	3
E56B	SHLD A531	A 531A	SHIELD GROUND	22	3
E56B	SHLD A532	A 532A	SHIELD GROUND		3
E56BB	E56B		JUMPER STRAP	20	3
E56BB	E88B	A1017	SHIELD GROUND		
E57	SPLICE REDUCER (1016006-003)				
E57B	E57BB		JUMPER STRAP		3
E57B	SHLD A83	A 83A	SHIELD GROUND	22	3
E57B	SHLD A277	A 277A	SHIELD GROUND	22	3
E57B	SHLD A278	A 278A	SHIELD GROUND	20	3
E57B	J35-B	A 552	CABLE W50 SHIELD GROUND	22	3
E57B	SHLD A553	A 553A	SHIELD GROUND	22	3
E57B	SHLD A554	A 554A	SHIELD GROUND	22	3
E57B	SHLD A555	A 555A	SHIELD GROUND	22	3
E57B	SHLD A556	A 556A	SHIELD GROUND	22	3
E57B	SHLD A557	A 557A	SHIELD GROUND		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E57	SPLICE REDUCER (1016006-003)				
E57B	SHLD A1139	A1139A	SHIELD GROUND	22	3
E57BB	E57B		JUMPER STRAP		3
E57BB	E64B	A1018	SHIELD GROUND	20	3
E58	SPLICE REDUCER (1016006-003)				
E58B	E58BB		JUMPER STRAP		3
E58B	J36-B	A 561	CABLE W51 SHIELD GROUND	20	3
E58B	SHLD A562	A 562A	SHIELD GROUND	22	3
E58B	SHLD A563	A 563A	SHIELD GROUND	22	3
E58B	SHLD A564	A 564A	SHIELD GROUND	22	3
E58B	SHLD A565	A 565A	SHIELD GROUND	22	3
E58B	SHLD A566	A 566A	SHIELD GROUND	22	3
E58B	SHLD A567	A 567A	SHIELD GROUND	22	3
E58B	SHLD A568	A 568A	SHIELD GROUND	22	3
E58B	SHLD A569	A 569A	SHIELD GROUND	22	3
E58B	SHLD A571	A 571A	SHIELD GROUND		3
E58BB	E58B		JUMPER STRAP	20	3
E58BB	E64B	A1019	SHIELD GROUND		
E59	SPLICE REDUCER (1016006-002)				
E59B	E59BB		JUMPER STRAP		3
E59B	SHLD A577	A 577A	SHIELD GROUND	22	3
E59B	SHLD A578	A 578A	SHIELD GROUND	22	3
E59B	SHLD A579	A 579A	SHIELD GROUND	22	3
E59B	SHLD A580	A 580A	SHIELD GROUND	22	3
E59B	SHLD A581	A 581A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E59	SPLICE REDUCER (1016006-002)				
E59B	SHLD A583	A 583A	SHIELD GROUND	22	3
E59B	SHLD A584	A 584A	SHIELD GROUND	22	3
E59B	E59BB		JUMPER STRAP		3
E59BB	E82B	A1020	SHIELD GROUND	20	3
E60	SPLICE REDUCER (1016006-003)				
E60B	E60BB		JUMPER STRAP		3
E60B	J38-B	A 586	CABLE W53 SHIELD GROUND	20	3
E60B	SHLD A589	A 589A	SHIELD GROUND	22	3
E60B	SHLD A590	A 590A	SHIELD GROUND	22	3
E60B	SHLD A591	A 591A	SHIELD GROUND	22	3
E60B	SHLD A592	A 592A	SHIELD GROUND	22	3
E60B	SHLD A593	A 593A	SHIELD GROUND	22	3
E60B	SHLD A594	A 594A	SHIELD GROUND	22	3
E60B	SHLD A595	A 595A	SHIELD GROUND	22	3
E60BB	E60B		JUMPER STRAP		3
E60BB	E82B	A1021	SHIELD GROUND	20	3
E61	SPLICE REDUCER (1016006-002)				
E61B	E61BB		JUMPER STRAP		3
E61B	J37-B	A 573	CABLE W52 SHIELD GROUND	20	3
E61B	SHLD A575	A 575A	SHIELD GROUND	22	3
E61B	SHLD A576	A 576A	SHIELD GROUND	22	3
E61B	SHLD A596	A 596A	SHIELD GROUND	22	3
E61B	SHLD A597	A 597A	SHIELD GROUND	22	3
E61B	SHLD A598	A 598A	SHIELD GROUND	22	3

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SCALE - NONE | REV LTR C | SHEET 39 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E61	SPLICE REDUCER (1016006-002)				
E61B	SHLD A601	A 601A	SHIELD GROUND	22	3
E61B	SHLD A602	A 602A	SHIELD GROUND	22	3
E61B	SHLD A603	A 603A	SHIELD GROUND	22	3
E61B	SHLD A604	A 604A	SHIELD GROUND	22	3
E61B	SHLD A605	A 605A	SHIELD GROUND	22	3
E61BB	E61B		JUMPER STRAP		3
E61BB	E82B	A1060	SHIELD GROUND	20	3
E62	SPLICE REDUCER (1016006-003)				
E62B	E62BB		JUMPER STRAP		3
E62B	J34-B	A 521	CABLE W49 SHIELD GROUND	20	3
E62B	J39-B	A 607	CABLE W54 SHIELD GROUND	20	3
E62B	SHLD A611	A 611A	SHIELD GROUND	22	3
E62B	SHLD A612	A 612A	SHIELD GROUND	22	3
E62B	J40-C*	A 616	CABLE W55 SHIELD GROUND	20	3
E62B	SHLD A630	A 630A	SHIELD GROUND	22	3
E62B	SHLD A1157	A1157A	SHIELD GROUND	22	3
E62BB	E62B		JUMPER STRAP		3
E62BB	E88B	A1022	SHIELD GROUND	20	3
E63	SPLICE REDUCER (1016006-003)				
E63B	E63BB		JUMPER STRAP		3
E63B	J41-H	A 644	CABLE W56 SHIELD GROUND	20	3
E63B	SHLD A648	A 648A	SHIELD GROUND	22	3
E63B	SHLD A649	A 649A	SHIELD GROUND	22	3
E63B	SHLD A650	A 650A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E63	SPLICE REDUCER (1016006-003)				
E63B	J42-B	A 654	CABLE W57 SHIELD GROUND	20	3
E63B	SHLD A655	A 655A	SHIELD GROUND	22	3
E63B	SHLD A656	A 656A	SHIELD GROUND	22	3
E63B	SHLD A688	A 688A	SHIELD GROUND	22	3
E63BB	E63B		JUMPER STRAP		3
E63BB	E64B	A1023	SHIELD GROUND	20	3
E64	SPLICE REDUCER (1016006-002)				
E64B	E64BB		JUMPER STRAP		3
E64B	E57BB	A1018	SHIELD GROUND	20	3
E64B	E58BB	A1019	SHIELD GROUND	20	3
E64B	E63BB	A1023	SHIELD GROUND	20	3
E64BB	E64B		JUMPER STRAP		3
E64BB	TB15-11	A1024	SHIELD GROUND	16	3
E65	SPLICE REDUCER (1016006-003)				
E65B	E65BB		JUMPER STRAP		3
E65B	J43-G	A 659	OPTICS SHIELD GROUND (FROM GNIC)	20	3
E65B	SHLD A662	A 662A	SHIELD GROUND	22	3
E65B	SHLD A666	A 666A	SHIELD GROUND	22	3
E65B	J43-A*	A 668	CABLE SHIELD GROUND	20	3
E65B	SHLD A675	A 675A	SHIELD GROUND	22	3
E65B	SHLD A1054	A1054A	SHIELD GROUND	22	3
E65B	SHLD A1133	A1133A	SHIELD GROUND	22	3
E65BB	E65B		JUMPER STRAP		3
E65BB	E88B	A1025	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
E66	SPLICE REDUCER (1016006-003)				
E66B	E66BB		JUMPER STRAP		3
E66B	SHLD A678	A 678A	SHIELD GROUND	22	3
E66B	SHLD A679	A 679A	SHIELD GROUND	22	3
E66B	SHLD A680	A 680A	SHIELD GROUND	22	3
E66B	SHLD A681	A 681A	SHIELD GROUND	22	3
E66B	J44-A*	A 691	CABLE W58 SHIELD GROUND	20	3
E66B	SHLD A701	A 701A	SHIELD GROUND	22	3
E66B	SHLD A702	A 702A	SHIELD GROUND	22	3
E66BB	E66B		JUMPER STRAP		3
E66BB	E88B	A1026	SHIELD GROUND	20	3
E67	SPLICE REDUCER (1016006-002)				
E67B	E67BB		JUMPER STRAP		3
E67B	J45-B	A 705	CABLE SHIELD GROUND	20	3
E67B	SHLD A709	A 709A	SHIELD GROUND	22	3
E67B	SHLD A710	A 710A	SHIELD GROUND	22	3
E67B	SHLD A711	A 711A	SHIELD GROUND	22	3
E67B	SHLD A712	A 712A	SHIELD GROUND	22	3
E67BB	E67B		JUMPER STRAP		3
E67BB	E88B	A1027	SHIELD GROUND	20	3
E68	SPLICE REDUCER (1016006-002)				
E68B	E68BB		JUMPER STRAP		3
E68B	SHLD A757	A 767	SHIELD GROUND	22	3
E68B	SHLD A758	A 768A	SHIELD GROUND	22	3
E68B	SHLD A769	A 769A	SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E68	SPLICE REDUCER (1016006-002)				
E68B	SHLD	A798	A 798A SHIELD GROUND	22	3
E68B	SHLD	A1145	A1145A SHIELD GROUND	22	3
E68B	SHLD	A1146	A1146A SHIELD GROUND	22	3
E68B	SHLD	A1147	A1147A SHIELD GROUND	22	3
E68B	SHLD	A1148	A1148A SHIELD GROUND	22	3
E68B	SHLD	A1149	A1149A SHIELD GROUND		3
E68BB	E68B		JUMPER STRAP	20	3
E68BB	E77B		A1028 SHIELD GROUND		
	E69 SPLICE REDUCER (1016006-001)				
E69B	E69BB		JUMPER STRAP		3
E69B	SHLD	A810	A 810A SHIELD GROUND	22	3
E69BB	E69B		JUMPER STRAP		3
E69BB	E77B		A1029 SHIELD GROUND	20	3
	E71 SPLICE REDUCER (1016006-003)				
E71B	E71BB		JUMPER STRAP		3
E71B	SHLD	A836	A 836A SHIELD GROUND	22	3
E71B	SHLD	A838	A 838A SHIELD GROUND	22	3
E71B	SHLD	A841	A 841A SHIELD GROUND	22	3
E71B	SHLD	A842	A 842A SHIELD GROUND	22	3
E71B	SHLD	A843	A 843A SHIELD GROUND	22	3
E71B	SHLD	A899	A 899A SHIELD GROUND	22	3
E71B	SHLD	A900	A 900A SHIELD GROUND	22	3
E71B	SHLD	A901	A 901A SHIELD GROUND	22	3
E71B	SHLD	A904	A 904A SHIELD GROUND		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E71	SPLICE REDUCER (1016006-003)				
E71B	SHLD	A905	A 905A SHIELD GROUND	22	3
E71BB	E71B		JUMPER STRAP		3
E71BB	E78B		A1031 SHIELD GROUND	20	3
	E72 SPLICE REDUCER (1016006-003)				
E72B	E72BB		JUMPER STRAP		3
E72B	SHLD	A909	A 909A SHIELD GROUND	22	3
E72B	SHLD	A910	A 910A SHIELD GROUND	22	3
E72B	SHLD	A911	A 911A SHIELD GROUND	22	3
E72B	SHLD	A912	A 912A SHIELD GROUND	22	3
E72B	SHLD	A913	A 913A SHIELD GROUND	22	3
E72B	SHLD	A914	A 914A SHIELD GROUND	22	3
E72B	SHLD	A915	A 915A SHIELD GROUND	22	3
E72B	SHLD	A916	A 916A SHIELD GROUND	22	3
E72B	SHLD	A919	A 919A SHIELD GROUND	22	3
E72B	SHLD	A920	A 920A SHIELD GROUND		3
E72BB	E72B		JUMPER STRAP	20	3
E72BB	E78B		A1032 SHIELD GROUND		
	E73 SPLICE REDUCER (1016006-003)				
E73B	E73BB		JUMPER STRAP		3
E73B	SHLD	A845	A 845A SHIELD GROUND	22	3
E73B	SHLD	A850	A 850A SHIELD GROUND	22	3
E73B	SHLD	A855	A 855A SHIELD GROUND	22	3
E73B	SHLD	A856	A 856A SHIELD GROUND	22	3
E73B	SHLD	A857	A 857A SHIELD GROUND		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E73	SPLICE REDUCER (1016006-003)				
E73B	SHLD	A858	A 858A SHIELD GROUND	22	3
E73B	SHLD	A859	A 859A SHIELD GROUND	22	3
E73B	SHLD	A860	A 860A SHIELD GROUND	22	3
E73B	SHLD	A861	A 861A SHIELD GROUND	22	3
E73B	SHLD	A862	A 862A SHIELD GROUND		3
E73BB	E73B		JUMPER STRAP	20	3
E73BB	E78B		A1033 SHIELD GROUND		
	E74 SPLICE REDUCER (1016006-003)				
E74B	E74BB		JUMPER STRAP		3
E74B	SHLD	A925	A 925A SHIELD GROUND	22	3
E74B	SHLD	A926	A 926A SHIELD GROUND	22	3
E74B	SHLD	A927	A 927A SHIELD GROUND	22	3
E74B	SHLD	A928	A 928A SHIELD GROUND	22	3
E74B	SHLD	A929	A 929A SHIELD GROUND	22	3
E74B	SHLD	A930	A 930A SHIELD GROUND	22	3
E74B	SHLD	A931	A 931A SHIELD GROUND	22	3
E74B	SHLD	A932	A 932A SHIELD GROUND	22	3
E74B	SHLD	A936	A 936A SHIELD GROUND	22	3
E74B	SHLD	A937	A 937A SHIELD GROUND		3
E74BB	E74B		JUMPER STRAP	20	3
E74BB	E78B		A1034 SHIELD GROUND		
	E75 SPLICE REDUCER (1016006-003)				
E75B	E75BB		JUMPER STRAP		3
E75B	SHLD	A866	A 866A SHIELD GROUND	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E75	SPLICE REDUCER (1016006-003)				
E75B	SHLD	A871	A 871A SHIELD GROUND	22	3
E75B	SHLD	A872	A 872A SHIELD GROUND	22	3
E75B	SHLD	A873	A 873A SHIELD GROUND	22	3
E75B	SHLD	A874	A 874A SHIELD GROUND	22	3
E75B	SHLD	A875	A 875A SHIELD GROUND	22	3
E75B	SHLD	A876	A 876A SHIELD GROUND	22	3
E75B	SHLD	A877	A 877A SHIELD GROUND	22	3
E75B	SHLD	A878	A 878A SHIELD GROUND	22	3
E75B	SHLD	A881	A 881A SHIELD GROUND		3
E75BB	E75B		JUMPER STRAP	20	3
E75BB	E78B		A1035 SHIELD GROUND		
	E76 SPLICE REDUCER (1016006-003)				
E76B	E76BB		JUMPER STRAP		3
E76B	SHLD	A890	A 890A SHIELD GROUND	22	3
E76B	SHLD	A893	A 893A SHIELD GROUND	22	3
E76B	SHLD	A894	A 894A SHIELD GROUND	22	3
E76B	SHLD	A895	A 895A SHIELD GROUND	22	3
E76B	SHLD	A896	A 896A SHIELD GROUND	22	3
E76B	SHLD	A897	A 897A SHIELD GROUND	22	3
E76B	SHLD	A941	A 941A SHIELD GROUND	22	3
E76B	SHLD	A942	A 942A SHIELD GROUND	22	3
E76B	SHLD	A943	A 943A SHIELD GROUND	22	3
E76B	SHLD	A944	A 944A SHIELD GROUND		3
E76BB	E76B		JUMPER STRAP	20	3
E76BB	E77B		A1036 SHIELD GROUND		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E90	SPLICE REDUCER (1016006-003)				
E90B	SHLD A346	A 346A	SHIELD GROUND	22	3
E90B	SHLD A347	A 347A	SHIELD GROUND	22	3
E90BB	E90B		JUMPER STRAP		3
E90BB	E40B	A1005	SHIELD GROUND	20	3
E91	SPLICE REDUCER (1016006-002)				
E91B	E91BB		JUMPER STRAP		3
E91B	SHLD A184	A 184A	SHIELD GROUND	22	3
E91B	SHLD A187	A 187A	SHIELD GROUND	22	3
E91B	SHLD A190	A 190A	SHIELD GROUND	22	3
E91B	SHLD A191	A 191A	SHIELD GROUND	22	3
E91BB	E91B		JUMPER STRAP		3
E91BB	E79B	A1062	SHIELD GROUND	20	3
E92	SPLICE REDUCER (1016006-002)				
E92B	E92BB		JUMPER STRAP		7
E92B	J11-J	A 252	0 VDC IMU (IMU DELAY LIGHT LO)	24	7
E92B	J11-T•	A 290	0 VDC IMU	20	7
E92B	J11-G	A1137	0 VDC IMU (IMU TEMP CONTR FAIL LIGHT LO)	20	7
E92BB	E92B		JUMPER STRAP		7
E92BB	TB16-11	A1073	ISS ZERO VDC	16	7
E93	SPLICE REDUCER (1016006-003)				

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E93	SPLICE REDUCER (1016006-003)				
E93B	E93BB		JUMPER STRAP		3
E93B	SHLD A270	A 270A	SHIELD GROUND	22	3
E93B	SHLD A353	A 353A	SHIELD GROUND	22	3
E93B	J24-S	A 356	OPTICS 0 VDC	20	3
E93B	J24-T	A 357	OPTICS 0 VDC	20	3
E93B	J24-U	A 35R	CABLE WH4 SHIELD GROUND	20	3
E93B	SHLD A359	A 359A	SHIELD GROUND	22	3
E93B	SHLD A373	A 373A	SHIELD GROUND	22	3
E93BB	E93B		JUMPER STRAP		3
E93BB	E40B	A1074	SHIELD GROUND	20	3
E94	SPLICE REDUCER (1016006-003)				
E94B	E94BB		JUMPER STRAP		3
E94B	SHLD A272	A 272A	SHIELD GROUND	22	3
E94B	SHLD A273	A 273A	SHIELD GROUND	22	3
E94B	SHLD A542	A 542A	SHIELD GROUND	22	3
E94B	SHLD A544	A 544A	SHIELD GROUND	22	3
E94B	SHLD A547	A 547A	SHIELD GROUND	22	3
E94B	SHLD A550	A 550A	SHIELD GROUND	22	3
E94B	SHLD A551	A 551A	SHIELD GROUND	22	3
E94BB	E94B		JUMPER STRAP		3
E94BB	E88B	A1075	SHIELD GROUND	20	3
J1	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J1-A			SPARE CONTACT		
J1-B			SPARE CONTACT (DO NOT USE)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J1	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J1-C			SPARE CONTACT		
J1-D			SPARE CONTACT		
J1-E			SPARE CONTACT		
J1-F			SPARE CONTACT		
J1-G			SPARE CONTACT		
J1-H			SPARE CONTACT		
J1-J			SPARE CONTACT		
J1-K			SPARE CONTACT		
J1-L			SPARE CONTACT		
J1-M			SPARE CONTACT		
J1-N			SPARE CONTACT		
J1-P	K27-6	A1144	OPTICS TEST LATCH VOLTAGE	20	14
J1-R			SPARE CONTACT		
J1-S			SPARE CONTACT		
J1-T	J47-D	A1170	OPTICS ZERO ENCODER IND.	20	16
J1-U	TB12-16	A1162	SCT MDA DISABLE HI	20	18
J1-V	TB12-15	A1163	SCT MDA DISABLE LO	20	20
J1-W	J47-P	A1171	MARK	20	22
J1-X	J47-R	A1172	NOT MARK	20	23
J1-Y			SPARE CONTACT		
J1-Z			SPARE CONTACT		
J1-A•			SPARE CONTACT		
J1-B•			SPARE CONTACT		
J1-C•			SPARE CONTACT		
J1-D•			SPARE CONTACT		
J1-E•			SPARE CONTACT		
J1-F•			SPARE CONTACT		
J1-G•			SPARE CONTACT		
J1-H•			SPARE CONTACT		
J1-I•			SPARE CONTACT		
J1-J•			SPARE CONTACT		
J1-K•			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J1	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J1-M•			SPARE CONTACT		
J1-N•			SPARE CONTACT		
J1-P•			SPARE CONTACT		
J1-Q•			SPARE CONTACT		
J1-S•	K19-1	A 6	SHAFT LOOP TEST CONTROL	20	15
J1-T•	K18-7	A 7R	800 CPS VAR OPTICS TEST VOLTAGE HI	24	17
J1-U•	K18-1	A 7L	800 CPS VAR OPTICS TEST VOLTAGE LO	24	19
J1-V•	K30-1	A 8	TRUNNION LOOP TEST CONTROL	20	21
J1-W•			SPARE CONTACT		
J1-X•	K26-3	A1161	OPTICS TEST COMMAND	20	24
J1-Y•	K20-13	A 10R	VAR. VOLTAGE CONTR INPUT HI	24	25
J1-Z•	K20-9	A 10L	VAR. VOLTAGE CONTR INPUT LO	24	26
J1-AA	TB12-22	A 11	OPT TEST CSC RELAY LO	24	8
J1-BB	K20-2	A 12	OPT TEST ZEROING RELAY LO	24	9
J1-CC	K28-3	A 13W	+28 VDC OPTICS SWITCHED	22	10
J1-DD	K27-3	A 14W	+28 VDC OPTICS SWITCHED	22	11
J1-EE	TB12-14	A 15	ENABLE SHAFT CDU MOTOR	20	12
J1-FF	TB12-12	A 16	ENABLE TRUN CDU MOTOR	20	13
J1-GG			SPARE CONTACT		
J1-HH			SPARE CONTACT		
J2	55 PIN CONNECTOR MS 3127E22-55P (1897053-550)				
J2-A			SPARE CONTACT		
J2-B			SPARE CONTACT (DO NOT USE)		
J2-C	TB13-1F	A 21R	800 CPS 28V L-90 DEG HI IMU	24	107
J2-D	TB13-2F	A 21L	800 CPS 28V L-90 DEG LO IMU	24	109
J2-E			SPARE CONTACT		
J2-F			SPARE CONTACT		
J2-G	J27-V	A1196R	800 CPS 28V 5 PERCENT IMU WHEELS PH A	20	113

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J2	55 PIN CONNECTOR MS 3127E22-55P (1897053-550)				
J2-H	J27-U	A1196Y	800 CPS 28V 5 PERCENT IMU WHEELS PH B	20	115
J2-J	J27-T	A1196L	800 CPS 28V 5 PERCENT IMU WHEELS LO	20	117
J2-K			SPARE CONTACT		
J2-L			SPARE CONTACT		
J2-M			SPARE CONTACT		
J2-N			SPARE CONTACT		
J2-P			SPARE CONTACT		
J2-R			SPARE CONTACT		
J2-S			SPARE CONTACT		
J2-T			SPARE CONTACT		
J2-U			SPARE CONTACT		
J2-V			SPARE CONTACT		
J2-W			SPARE CONTACT		
J2-X			SPARE CONTACT		
J2-Y			SPARE CONTACT		
J2-Z			SPARE CONTACT		
J2-A*	K65-6	A 23R	CARD POINT SIN 16X LO	24	103
J2-B*	K65-3	A 23L	CARD POINT SIN 16X HI	24	105
J2-C*	K65-12	A 24R	CARD POINT COS 16X HI	24	108
J2-D*	K65-9	A 24L	CARD POINT COS 16X LO	24	110
J2-E*	K66-3	A 25L	CARD POINT SIN 1X HI	24	111
J2-F*	K66-6	A 25R	CARD POINT SIN 1X LO	24	112
J2-G*	K66-12	A 26R	CARD POINT COS 1X HI	24	114
J2-H*	K66-9	A 26L	CARD POINT COS 1X LO	24	116
J2-I*			SPARE CONTACT		
J2-J*			SPARE CONTACT		
J2-K*			SPARE CONTACT		
J2-M*			SPARE CONTACT		
J2-N*	J44-T*	A 28W	IMU TEMP CONT K2 PIN5 (AUTO OVRD, PROP AND BACKUP MODE CMND HI)	24	118
J2-P*	J44-U*	A 29W	IMU TEMP CONT AMP PIN5 (PROP MODE CMND HI)	24	119
J2-Q*	J43-Q*	A 30W	IMU HTR CURR AMP PIN5 (27 VDC DURING G AND N IN)	24	120

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 55 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J2	55 PIN CONNECTOR MS 3127E22-55P (1897053-550)				
J2-R*	J43-G*	A 31W	IRIG TEMP BRIDGE AMP PIN 6	24	121
J2-S*	J43-H*	A 32W	ACCEL TEMP BRIDGE AMP PIN 6	24	122
J2-T*	J44-H*	A 33W	ACCEL IND SENSOR HI	24	123
J2-U*	J43-W*	A 34	O VDC IMU (27VDC LO DURING G AND N EMER MODE)	20	124
J2-V*	J43-M*	A 35W	IMU TEMP ALARM AMP PIN5 (27 VDC LO DURING G AND N IN)	24	125
J2-W*	J43-N*	A 36W	IMU TEMP ALARM AMP PIN 15 (27 VDC LO IN EMER MODE)	24	126
J2-X*	J43-P*	A 37W	EMERG HTR CONT. MODE LO (EMER MODE COMMAND LO G AND N)	24	127
J2-Y*	J44-V*	A 38W	IMU TEMP CONT K1 PIN 3 (AUTO OVRD AND EMER MODE COMMAND HI)	24	128
J2-Z*	J44-W*	A 39W	IMU TEMP CONT K2 PIN 6 (AUTO OVRD AND EMER MODE CMND LO G AND N)	24	129
J2-AA	J44-X*	A 40W	IMU TEMP ALARM AMP PIN 14 (27 VDC HI DURING G AND N IN)	24	104
J2-BB	J44-Y*	A 41W	IMU TEMP ALARM BIAS RES (AUTO OVRD AND PROP MODE CMND LO)	24	106
J2-CC			SPARE CONTACT		
J2-DD			SPARE CONTACT		
J2-EE			SPARE CONTACT		
J2-FF			SPARE CONTACT		
J2-GG			SPARE CONTACT		
J2-HH			SPARE CONTACT		
J3	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J3-A			SPARE CONTACT		
J3-B			SPARE CONTACT (DO NOT USE)		
J3-C			SPARE CONTACT		

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SCALE-NONE	REV LTR C	SHEET 56 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J3	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J3-D			SPARE CONTACT		
J3-E			SPARE CONTACT		
J3-F			SPARE CONTACT		
J3-G			SPARE CONTACT		
J3-H			SPARE CONTACT		
J3-J			SPARE CONTACT		
J3-K	J25-I*	A1110R	25.6 KC HI IMU	20	257
J3-L	J25-J*	A1110L	25.6 KC LO IMU	20	258
J3-M			SPARE CONTACT		
J3-N			SPARE CONTACT		
J3-P			SPARE CONTACT		
J3-R			SPARE CONTACT		
J3-S			SPARE CONTACT		
J3-T			SPARE CONTACT		
J3-U			SPARE CONTACT		
J3-V			SPARE CONTACT		
J3-W			SPARE CONTACT		
J3-X			SPARE CONTACT		
J3-Y			SPARE CONTACT		
J3-Z			SPARE CONTACT		
J3-A*	K45-12	A 45L	SIN AIG 16X TO POS (HI)	24	327
J3-B*	K45-9	A 45R	SIN AIG 16X TO POS (LO)	24	329
J3-C*	K45-3	A 46R	COS AIG 16X TO POS (HI)	24	331
J3-D*	K45-6	A 46L	COS AIG 16X TO POS (LO)	24	332
J3-E*	K44-12	A 47R	SIN AIG 1X TO POS (HI)	24	333
J3-F*	K44-15	A 47L	SIN AIG 1X TO POS (LO)	24	334
J3-G*	K44-6	A 48R	COS AIG 1X TO POS (HI)	24	335
J3-H*	K44-9	A 48L	COS AIG 1X TO POS (LO)	24	336
J3-I*			SPARE CONTACT		
J3-J*	K49-12	A 49L	SIN AMG 16X TO POS (HI)	24	337
J3-K*	K49-9	A 49R	SIN AMG 16X TO POS (LO)	24	338
J3-M*	K49-3	A 50R	COS AMG 16X TO POS (HI)	24	339

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SCALE-NONE	REV LTR C	SHEET 57 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J3	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J3-N*	K49-6	A 50L	COS AMG 16X TO POS (LO)	24	340
J3-P*	K48-12	A 51R	SIN AMG 1X TO POS (HI)	24	341
J3-Q*	K48-15	A 51L	SIN AMG 1X TO POS (LO)	24	342
J3-R*	K48-6	A 52R	COS AMG 1X TO POS (HI)	24	343
J3-S*	K48-9	A 52L	COS AMG 1X TO POS (LO)	24	344
J3-T*	K53-9	A 53R	SIN AOG 16X TO POS (HI)	24	345
J3-U*	K53-12	A 53L	SIN AOG 16X TO POS (LO)	24	346
J3-V*	K53-3	A 54R	COS AOG 16X TO POS (HI)	24	347
J3-W*	K53-6	A 54L	COS AOG 16X TO POS (LO)	24	348
J3-X*	K52-15	A 55L	SIN AOG 1X TO POS (HI)	24	349
J3-Y*	K52-12	A 55R	SIN AOG 1X TO POS (LO)	24	350
J3-Z*			SPARE CONTACT	24	328
J3-AA	K52-6	A 56R	COS AOG 1X TO POS (HI)	24	330
J3-BB	K52-9	A 56L	COS AOG 1X TO POS (LO)	20	247
J3-CC	J25-B*	A 388L	3200 CPS 2V FDBK LO	20	246
J3-DD	J25-A*	A 388R	3200 CPS 2V FDBK HI	20	301
J3-EE	J27-A	A1107R	3200 CPS GSE PWR SUP HI	20	304
J3-FF	J27-C	A1107L	3200 CPS GSE PWR SUP LO	20	245
J3-GG	XF5-2	A 59R	3200 CPS 2V HI	20	6
J3-HH	E6	A 59L	3200 CPS 2V LO	20	80
J3-JJ	TB7-9D	A 60R	3200 CPS 2V FDBK HI	20	83
J3-KK	TB7-10D	A 60L	3200 CPS 2V FDBK LO		
J3-LL			SPARE CONTACT		
J3-MM			SPARE CONTACT		
J3-NN			SPARE CONTACT		
J3-PP			SPARE CONTACT		
J4	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	J6 7 PIN CONNECTOR MS 3102E28-10P (1897108-100)				
J6-A	E20B	A 112	SHIELD GROUND	20	3
J6-B			SPARE CONTACT		
J6-C	TB5-9	A 113	28 VDC AGE POWER HI	8	524
J6-D	TB8-10	A 114	28 VDC AGE POWER LO	8	7
J6-E			SPARE CONTACT		
J6-F	TB5-10	A 116	28 VDC AGE POWER REMOTE SENSE HI	16	524
J6-G	TB8-7	A 115	28 VDC AGE POWER REMOTE SENSE LO	16	7
	J7 55 PIN CONNECTOR MS 3127E22-55PX (1897053-552)				
J7-A			SPARE CONTACT		
J7-B			SPARE CONTACT (DO NOT USE)		
J7-C	XF19-1	A1083	27 VDC HI OIA ON	20	525
J7-D	TB7-15E	A1084	27 VDC RELAY AND LAMP POWER LO	20	355
J7-E			SPARE CONTACT		
J7-F			SPARE CONTACT		
J7-G			SPARE CONTACT		
J7-H			SPARE CONTACT		
J7-J			SPARE CONTACT		
J7-K			SPARE CONTACT		
J7-L	TB5-8	A1187	28 VDC AGE HI (REMOTE SENSE)	20	524
J7-M	TB8-15	A1188	28 VDC AGE LO (REMOTE SENSE)	20	7
J7-N			SPARE CONTACT		
J7-P			SPARE CONTACT		
J7-R			SPARE CONTACT		
J7-S			SPARE CONTACT		
J7-T			SPARE CONTACT		
J7-U			SPARE CONTACT		
J7-V			SPARE CONTACT		
J7-W			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J7	55 PIN CONNECTOR MS 3127E22-55PX (1897053-552)				
J7-X			SPARE CONTACT		
J7-Y			SPARE CONTACT		
J7-Z			SPARE CONTACT		
J7-A*			SPARE CONTACT		
J7-B*			SPARE CONTACT		
J7-C*	XF20-1	A1152	28 VDC AGE HI	20	524
J7-D*	TB8-5	A 129	28 VDC AGE LO	20	7
J7-E*	J46-A	A 130	+28 VDC STBY BUS B	20	322
J7-F*	J46-C	A 131	+28 VDC IMU BUS B	20	325
J7-G*	J46-F*	A 132	+28 VDC AGC BUS B	20	321
J7-H*	J40-A*	A 133	+28 VDC AGC BUS A	20	319
J7-I*	J40-C	A 134	+28 VDC IMU BUS A	20	324
J7-J*	J40-A	A 135	+28 VDC ISS STBY BUS A	20	320
J7-K*	TB13-3A	A 136	27 VDC RLP LO OSS ONLY	20	356
J7-M*	J40-F	A1173	0 VDC IMU	20	318
J7-N*	J40-F*	A1174	0 VDC AGC	20	323
J7-P*	J40-B*	A1175	0 VDC OPTICS	20	354
J7-Q*			SPARE CONTACT		
J7-R*	K5-6	A 137	AGC POWER ON LAMP	24	530
J7-S*	K5-4	A 138	27 VDC HI AGC	24	531
J7-T*	TB17-9A	A 139R	400 CPS 115V HI	20	135
J7-U*	TB17-10A	A 139L	400 CPS 115V LO	20	136
J7-V*	K4-6	A 140	OPTICS POWER ON LAMP	24	523
J7-W*	K4-4	A 141	27 VDC HI OPTICS	24	532
J7-X*	K6-1	A 142	AGE POWER TRANSFER A	20	525
J7-Y*	K1-X01	A 143	AGE POWER TRANSFER B	20	533
J7-Z*	K1-X02	A 144	AGE POWER TRANSFER LO	20	534
J7-AA	XF19-1	A 145	27 VDC HI OIA ON	20	525
J7-BB	TB7-16E	A 146	27 VDC RELAY AND LAMP PWR. LO	20	355
J7-CC	K3-6	A 147	ISS STANDBY ON IND	24	526
J7-DD	K3-4	A 148	27 VDC HI ISS STANDBY	24	527
J7-EE	K2-11	A 149	27 VDC HI ISS OPERATE IND	20	528

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J7	55 PIN CONNECTOR MS 3127E22-55PX (1897053-552)				
J7-FF	K2-X01	A 150	27 VDC HI ISS OPERATE	20	529
J7-GG	J40-G	A 151	+28 VDC OPTICS BUS A	20	353
J7-HH	J46-G	A 152	+28 VDC OPTICS BUS B	20	352
	J8 55 PIN CONNECTOR MS 3127E22-55S (1897054-550)				
J8-A			SPARE CONTACT		
J8-B			SPARE CONTACT (DO NOT USE)		
J8-C			SPARE CONTACT		
J8-D			SPARE CONTACT		
J8-E			SPARE CONTACT		
J8-F			SPARE CONTACT		
J8-G			SPARE CONTACT		
J8-H			SPARE CONTACT		
J8-J	J39-Y*	A 188	COARSE ALIGN MODE COMMAND FROM AGC	24	457
J8-K	J39-Z*	A 189	ZERO ENCODER MODE COMMAND FROM AGC	24	458
J8-L	J39-AA	A 190W	COARSE ALIGN MODE IND TO AGC	24	450
J8-M	J45-FF	A 191W	ATTITUDE CONTR MODE IND TO AGC	24	518
J8-N	J39-FF	A 192	CDU MANUAL MODE COMMAND FROM AGC	24	452
J8-P			SPARE CONTACT		
J8-R			SPARE CONTACT		
J8-S	J34-DD	A 262	BACK-UP MODE RELAY CONTR	24	393
J8-T	J39-M*	A 153	BACK-UP MODE RELAY CONTR	20	453
J8-U	J27-LL	A 154	ZERO ENCODER MODE IND TO AGC	24	309
J8-V	J27-Z*	A 155	MANUAL CDU MODE IND TO AGC	24	326
J8-W			SPARE CONTACT		
J8-X			SPARE CONTACT		
J8-Y			SPARE CONTACT		
J8-Z			SPARE CONTACT		
J8-A*	P11-C*	A 160	STEPPER UNITS ZERO	24	535

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J8	55 PIN CONNECTOR MS 3127E22-55S (1897054-550)				
J8-B*	P10-A	A 161	STEPPER UNITS ONE	24	536
J8-C*	P10-B	A 162	STEPPER UNITS TWO	24	537
J8-D*	P10-C	A 163	STEPPER UNITS THREE	24	538
J8-E*	P10-D	A 164	STEPPER UNITS FOUR	24	539
J8-F*	P10-E	A 165	STEPPER UNITS FIVE	24	540
J8-G*	P10-F	A 166	STEPPER UNITS SIX	24	541
J8-H*	P10-G	A 167	STEPPER UNITS SEVEN	24	542
J8-I*			SPARE CONTACT		
J8-J*	P10-H	A 168	STEPPER UNITS EIGHT	24	543
J8-K*	P10-J	A 169	STEPPER UNITS NINE	24	544
J8-M*	P8-K	A 170	STEPPER TENS ONE	24	545
J8-N*	P8-W	A 171	STEPPER TENS TWO	24	546
J8-P*	P9-D	A 172	STEPPER TENS THREE	24	547
J8-Q*	P9-P	A 173	STEPPER TENS FOUR	24	548
J8-R*	P9-A*	A 174	STEPPER TENS FIVE	24	549
J8-S*			SPARE CONTACT		
J8-T*			SPARE CONTACT		
J8-U*	K7-5	A 175	CONTINUITY TEST PROCEED LIGHT	24	550
J8-V*	K7-3	A 176	CONTINUITY IND	24	551
J8-W*			SPARE CONTACT		
J8-X*	J34-N*	A 177	TRANSFER SWITCH INDICATION TO AGC	24	405
J8-Y*	J34-P*	A 178	ATTITUDE CONTROL MODE COMMAND FROM AGC	24	406
J8-Z*	J34-R*	A 179	MODE RELAY COMMON TO AGC	24	408
J8-AA	J34-V*	A 180	MODE RELAY COMMON	24	412
J8-BB	J34-K	A 181	0 VDC IMU	20	402
J8-CC	J34-HH	A 182	ATTITUDE CONTR RELAY CONTR	24	399
J8-DD	J39-A*	A 183	FINE ALIGN MODE COMMAND FROM AGC	24	449
J8-EE	J39-D*	A 184W	FINE ALIGN MODE IND TO AGC	24	451
J8-FF	J45-J*	A 185	MODE RELAY COMMON	20	520
J8-GG	J39-U*	A 186	ENTRY MODE COMMAND FROM AGC	24	455
J8-HH	J39-X*	A 187W	ENTRY MODE IND TO AGC	24	456

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	J9	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J9-A			SPARE CONTACT		
J9-B			SPARE CONTACT (DO NOT USE)		
J9-C	J26-C	A1078	27 VDC RLP HI	20	273
J9-D			SPARE CONTACT		
J9-E			SPARE CONTACT		
J9-F			SPARE CONTACT		
J9-G			SPARE CONTACT		
J9-H			SPARE CONTACT		
J9-J			SPARE CONTACT		
J9-K			SPARE CONTACT		
J9-L			SPARE CONTACT		
J9-M			SPARE CONTACT		
J9-N			SPARE CONTACT		
J9-P			SPARE CONTACT		
J9-R			SPARE CONTACT		
J9-S			SPARE CONTACT		
J9-T			SPARE CONTACT		
J9-U			SPARE CONTACT		
J9-V			SPARE CONTACT		
J9-W			SPARE CONTACT		
J9-X			SPARE CONTACT		
J9-Y	K65-1	A 193	OG CDU TEST COMMAND	20	569
J9-Z			SPARE CONTACT		
J9-A*			SPARE CONTACT		
J9-B*			SPARE CONTACT		
J9-C*			SPARE CONTACT		
J9-D*			SPARE CONTACT		
J9-E*			SPARE CONTACT		
J9-F*			SPARE CONTACT		
J9-G*	K22-3	A 201	PIPA LOOPS INHIBIT IND	20	552
J9-H*	K22-1	A 202	PIPA LOOPS INHIBIT COMMAND	20	553
J9-I*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J9		61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J9-J*	K55-1	A 203	X-GYRO ERROR TO OG SA	20	554
J9-K*	K40-1	A 204	X-GYRO ERROR TO MG SA	20	556
J9-M*	K41-1	A 205	Z-GYRO ERROR TO MG SA	20	558
J9-N*	K56-1	A 206	INVERT Z-GYRO ERROR	20	559
J9-P*	K57-1	A 207	IG CDU TEST COMMAND	20	560
J9-Q*	K42-1	A 208	IG CDU LOOP INHIBIT	20	561
J9-R*	K44-3	A 209	IG POS SEL IND	20	562
J9-S*	K44-1	A 210	ENABLE IG IMU RSVR SIG TO GPC	20	563
J9-T*	K61-1	A 211	MG CDU TEST COMMAND	20	564
J9-U*	K46-1	A 212	MG CDU LOOP INHIBIT	20	565
J9-V*	K48-3	A 213	MG POS SEL IND	20	566
J9-W*	K48-1	A 214	ENABLE MG IMU RSVR SIG TO GPC	20	567
J9-X*	K50-1	A 215	OG CDU LOOP INHIBIT	20	568
J9-Y*	K52-3	A 216	OG POS SELECTED IND	20	570
J9-Z*	K52-1	A 217	ENABLE OG IMU RSVR SIG TO GPC	20	571
J9-AA			SPARE CONTACT		
J9-BB			SPARE CONTACT		
J9-CC	J22-W*	A 220	WHEELS DISABLE COMMAND	20	178
J9-DD			SPARE CONTACT		
J9-EE			SPARE CONTACT		
J9-FF	J25-E*	A 223	DUCOSYN EXC SWITCHING RELAY HI	20	252
J9-GG	J25-F*	A 224	DUCOSYN EXC SWITCHING RELAY LO	20	254
J9-HH	TB1-2	A 225	CONTINUITY TEST SOURCE VOLTAGE	24	550
J9-JJ	K7-8	A 226	CONTINUITY TEST PROCEED VOLTAGE	24	555
J9-KK	K54-1	A 227	IRIG TEST SELECTED	20	557
J9-LL			SPARE CONTACT		
J9-MM			SPARE CONTACT		
J9-NN			SPARE CONTACT		
J9-PP			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	J10	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J10-A			SPARE CONTACT		
J10-B			SPARE CONTACT (DO NOT USE)		
J10-C	K42-11	A 232R	IG CDU MDA TACH SIGNAL	22	30
J10-D	K42-8	A 232L	IG CDU MDA INPUT RETURN	22	32
J10-E	K46-11	A 233R	MG CDU MDA TACH SIG	22	34
J10-F	K46-8	A 233L	MG CDU MDA INPUT RET	22	36
J10-G	K50-11	A 234R	OG CDU MDA TACH SIG	22	38
J10-H	K50-8	A 234L	OG CDU MDA INPUT RET	22	41
J10-J			SPARE CONTACT		
J10-K			SPARE CONTACT		
J10-L			SPARE CONTACT		
J10-M	J39-T*	A1134W	400 CPS VAR ILLUM PWR HI	20	44
J10-N	J34-M	A1132W	400 CPS 6V LO	20	46
J10-P			SPARE CONTACT		
J10-R			SPARE CONTACT		
J10-S			SPARE CONTACT		
J10-T	K51-17	A 236R	OG CDU 1/2 X ERROR SIG (HI)	24	54
J10-U	K51-14	A 236L	OG CDU ERROR SIG RET	24	56
J10-V	K46-17	A 237R	MG CDU 1/2 X ERROR SIG (HI)	24	58
J10-W	K46-14	A 237L	MG CDU ERROR SIG RET	24	59
J10-X	K42-17	A 238R	IG CDU 1/2 X ERROR SIGNAL S3 HI	24	60
J10-Y	K42-14	A 238L	IG CDU ERROR SIGNAL RETURN S1	24	61
J10-Z			SPARE CONTACT		
J10-A*	J47-G	A1192	GIMBAL LOCK LIGHT HI	20	27
J10-B*	TB16-5	A1193	0 VDC IMU	20	7
J10-C*			SPARE CONTACT		
J10-D*			SPARE CONTACT		
J10-E*	J34-C	A1055R	400 CPS 26V HI	24	35
J10-F*	J34-D	A1055L	400 CPS 26V LO	24	37
J10-G*	XF17-2	A1056W	400 CPS 1.5V 0 PH	24	39
J10-H*	XF18-2	A1057W	400 CPS 1.5V PI PH	24	42
J10-I*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J10		61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J10-J*			SPARE CONTACT		
J10-K*			SPARE CONTACT		
J10-M*	K68-13	A 239R	SIN AOG 16X TO CDU	24	45
J10-N*	K68-10	A 239L	SIN AOG 16X S4 (LO)	24	47
J10-P*	K64-10	A 240R	SIN AMG 16X TO CDU	24	49
J10-Q*	K64-13	A 240L	SIN AMG 16X S4	24	51
J10-R*	K45-13	A 241R	SIN AIG 16X TO CDU	24	52
J10-S*	K45-10	A 241L	SIN AIG 16X S4	24	53
J10-T*	K67-7	A 242R	COS AOG 16X S3 (HI)	24	55
J10-U*	K67-4	A 242L	COS AOG 16X TO CDU	24	57
J10-V*			SPARE CONTACT		
J10-W*			SPARE CONTACT		
J10-X*			SPARE CONTACT		
J10-Y*			SPARE CONTACT		
J10-Z*			SPARE CONTACT		
J10-AA	K63-7	A 243R	COS AMG 16X S3 (HI)	24	28
J10-BB	K63-4	A 243L	COS AMG 16X TO CDU	24	29
J10-CC	K45-4	A 244R	COS AIG 16X S3 HI	24	31
J10-DD	K45-7	A 244L	COS AIG 16X TO CDU	24	33
J10-EE			SPARE CONTACT		
J10-FF			SPARE CONTACT		
J10-GG	J34-T	A1123W	GIMBAL LOCK LIGHT HI	20	40
J10-HH	TB17-12D	A1124	400 CPS 6V LO	20	7
J10-JJ	TB17-11F	A1156R	400 CPS 6V HI	20	43
J10-KK	TB17-12F	A1156L	400 CPS 6V LO	20	7
J10-LL			SPARE CONTACT		
J10-MM			SPARE CONTACT		
J10-NN	J27-A*	A 428R	3200 CPS 2V HI	20	48
J10-PP	J27-B*	A 428L	3200 CPS 2V LO	20	50

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	J11	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)			
J11-A			SPARE CONTACT		
J11-B			SPARE CONTACT (DO NOT USE)		
J11-C	J26-D	A1197	+32 VDC PIP	20	620
J11-D	J26-F	A1199	+32 VDC, +120 VDC PIP RET.	20	621
J11-E	J26-E	A1198	+120 VDC PIP	20	622
J11-F	J25-P*	A 249W	IMU TEMP CONTR FAIL LIGHT HI	22	70
J11-G	E92B	A1137	0 VDC IMU (IMU TEMP CONTR FAIL LIGHT LO)	20	7
J11-H	J39-GG	A 251W	IMU DELAY LIGHT HI	24	73
J11-J	E92B	A 252	0 VDC IMU (IMU DELAY LIGHT LO)	24	7
J11-K			SPARE CONTACT		
J11-L			SPARE CONTACT		
J11-M			SPARE CONTACT		
J11-N	TB7-9C	A 255R	3200 CPS 2V FDBK HI	20	80
J11-P	TB7-10C	A 255L	3200 CPS 2V FDBK LO	20	83
J11-R	J41-F	A 256R	25.6 KC OPTICS HI	24	87
J11-S	J41-G	A 256L	25.6 KC OPTICS LO	24	89
J11-T	J41-D	A 257R	800 CPS 28V 5PCT L-90 DEG OPTICS HI	24	91
J11-U	J41-E	A 257L	800 CPS 28V 5PCT L-90 DEG OPTICS LO	24	92
J11-V	J41-B	A 258R	800 CPS 28V 1PCT HI (OPTICS)	24	94
J11-W	J41-C	A 258L	800 CPS 28V 1PCT LO (OPTICS)	24	96
J11-X	J27-F*	A 259R	25.6 KC HI IMU	24	98
J11-Y	J27-G*	A 259L	25.6 KC LO IMU	24	100
J11-Z			SPARE CONTACT		
J11-A*	J27-H*	A 260R	800 CPS 28V 1PCT HI IMU	24	62
J11-B*	J27-I*	A 260L	800 CPS 28V 1PCT LO IMU	24	64
J11-C*	J27-M*	A 280R	800 CPS 28V 5PCT L-90 DEG IMU HI	24	65
J11-D*	J27-N*	A 280L	800 CPS 28V 5PCT L-90 DEG IMU LO	24	67
J11-E*	J25-P	A 281R	800 CPS 28V 5PCT IMU WH PH A (HI)	24	69
J11-F*	J25-R	A 281Y	800 CPS 28V 5PCT IMU WH PH B (HI)	24	71
J11-G*	J25-S	A 281L	800 CPS 28V 5PCT IMU WH LO	24	72
J11-H*	J25-CC	A 282	TEMP CONTR SIG LO	20	74
J11-I*	J25-J	A 279	0 VDC CONDITIONING	24	75

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J11		61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)			
J11-J*			SPARE CONTACT		
J11-K*	J25-H	A 283	+20 VDC CONDITIONING	24	76
J11-M*	J25-FF	A 284	+2.5 VDC CONDITIONING HI	24	78
J11-N*	J25-GG	A 285	2.5 VDC CONDITIONING LO	24	81
J11-P*	J25-S*	A 286	+28 VDC AGC	20	84
J11-Q*	J25-T*	A 287	0 VDC IMU	20	86
J11-R*	TB12-19	A 288	+28 VDC STANDBY	20	88
J11-S*	TB13-12E	A 289	+28 VDC IMU	20	90
J11-T*	E92B	A 290	0 VDC IMU	20	7
J11-U*	J25-U*	A 291R	IG TORQ MTR HI	24	93
J11-V*	J25-V*	A 291L	IG TORQ MTR RET	24	95
J11-W*	J25-W*	A 292R	MG TORQ MTR HI	24	97
J11-X*	J25-X*	A 292L	MG TORQ MTR RET	24	99
J11-Y*	J25-Y*	A 293R	OG TORQ MTR HI	24	101
J11-Z*	J25-Z*	A 293L	OG TORQ MTR RET	24	102
J11-AA	TB12-17	A 294	+28 VDC OPTICS	20	63
J11-BB	TB14-6	A 295	0 VDC OPTICS	20	7
J11-CC	J25-G*	A 296R	IMU PRESSURE MONITOR HI	24	66
J11-DD	J25-H*	A 296L	IMU PRESSURE MONITOR LO	24	68
J11-EE			SPARE CONTACT		
J11-FF			SPARE CONTACT		
J11-GG			SPARE CONTACT		
J11-HH			SPARE CONTACT		
J11-JJ			SPARE CONTACT		
J11-KK			SPARE CONTACT		
J11-LL	J25-AA	A 297	ACCEL TEMP (TELE)	24	77
J11-MM	J25-BB	A 298	IRIG TEMP (TELE)	24	79
J11-NN	J25-DD	A 299	HTR CURR (TELE)	24	82
J11-PP	J25-EE	A 300	BLWR CURR SENSOR (TELE)	24	85

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	J21	14 PIN CONNECTOR MS 3102A28-20S (1896853-200)			
J21-A	TB2-9	A 301	+28 VDC IMU BUS A	12	130
J21-B	TB2-10	A 302	+28 VDC IMU BUS A	12	130
J21-C	TB2-3	A 303	+28 VDC IMU BUS B	12	131
J21-D	TB2-2	A 304	+28 VDC IMU BUS B	12	131
J21-E	TB16-2	A 305	0 VDC IMU	12	7
J21-F	TB16-4	A 306	0 VDC ISS	12	7
J21-G	TB15-1	A 307	SHIELD GND	12	3
J21-H	TB4-10	A 267	+28 VDC AGC BUS A	12	132
J21-J			SPARE CONTACT		
J21-K	TB5-4	A 308	+28 VDC STANDBY BUS A	16	133
J21-L	TB5-3	A 309	+28 VDC STANDBY BUS B	16	134
J21-M	TB17-9D	A 268R	115V 400 CPS HI	20	135
J21-N	TB17-10D	A 268L	115V 400 CPS LO	20	136
J21-P	TB4-2	A 269	+28 VDC AGC BUS B	12	137
	J22	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J22-A			SPARE CONTACT		
J22-B	E37B	A 310	CABLE W3B SHIELD GND	20	3
J22-C	J4-R	A1118	ERROR DETECT LIGHT (MAIN PANEL)	20	140
J22-D	J5-E*	A 96R	Y PIPA ERROR MONITOR	24	142
J22-E	J5-F*	A 96L	0 VDC IMU	24	144
J22-F	J5-G*	A 97R	Z PIPA ERROR MONITOR	24	147
J22-G	J5-H*	A 97L	0 VDC IMU	24	149
J22-H	K67-13	A 311R	CDU SIN AOG 1X LO	24	151
J22-J	TB11-7F	A 312	IMU SIN AOG 1X LO	24	153
J22-K	K67-10	A 311L	CDU SIN AOG 1X HI	24	156
J22-L	J4-A	A1116	IMU TEMP LIGHT (MAIN PANEL)	20	159
J22-M	J4-S	A 62R	WIRED SPARE	24	161
J22-N	J4-T	A 62L	WIRED SPARE	24	164

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J22		61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J22-P	J4-Y	A 65R	WIRED SPARE	24	167
J22-R	J4-Z	A 65L	WIRED SPARE	24	171
J22-S	J4-B*	A 66R	WIRED SPARE	24	173
J22-T	J4-C*	A 66L	WIRED SPARE	24	174
J22-U	J4-W	A 64R	WIRED SPARE	24	175
J22-V	J4-X	A 64L	WIRED SPARE	24	176
J22-W	J4-U	A 63R	WIRED SPARE	24	177
J22-X	J4-V	A 63L	WIRED SPARE	24	179
J22-Y	J5-J	A 87	ERROR DETECT LIGHT HI	24	181
J22-Z	J5-C*	A 95R	X PIPA ERROR MONITOR	24	183
J22-A*	J5-D*	A 95L	0 VDC IMU	24	138
J22-B*	K44-7	A 313R	IG 1X RSVR COS HI (IMU)	24	139
J22-C*	K44-10	A 313L	IG 1X RSVR COS LO (IMU)	24	141
J22-D*	K44-13	A 314R	IG 1X RSVR SIN HI (IMU)	24	143
J22-E*	K44-16	A 314L	IG 1X RSVR SIN LO (IMU)	24	145
J22-F*	K59-7	A 315R	CDU COS AIG 16X HI	24	31
J22-G*	K59-4	A 315L	CDU COS AIG 16X LO	24	33
J22-H*	K60-13	A 316R	CDU SIN AIG 16X LO	24	53
J22-I*	K60-10	A 316L	CDU SIN AIG 16X HI	24	52
J22-J*	K43-10	A 317R	IG CDU MDA OUTPUT HI	24	154
J22-K*	K43-7	A 317Y	0 VDC POWER GND (IMU) C.T.	24	157
J22-M*	K43-4	A 317L	IG CDU MDA OUTPUT LO	24	162
J22-N*	K63-19	A 318R	MG 1X RSVR COS HI (IMU)	24	165
J22-P*	K63-16	A 318L	MG 1X RSVR COS LO (IMU)	24	168
J22-Q*	K63-13	A 319R	MG 1X RSVR SIN HI (IMU)	24	170
J22-R*	K63-10	A 319L	MG 1X RSVR SIN LO (IMU)	24	172
J22-S*	K49-4	A 320R	CDU COS AMG 16X HI	24	28
J22-T*	K49-7	A 320L	CDU COS AMG 16X LO	24	29
J22-U*	K49-10	A 321R	CDU SIN AMG 16X LO	24	51
J22-V*	K49-13	A 321L	CDU SIN AMG 16X HI	24	49
J22-W*	J9-CC	A 220	WHEELS DISABLE COMMAND	20	178
J22-X*	K67-19	A 323R	CDU COS AOG 1X HI	24	180

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J22	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J22-Y•	TB11-13F	A 322	IMU COS AOG 1X HI	24	182
J22-Z•	K67-16	A 323L	CDU COS AOG 1X LO	24	184
J22-AA	K53-4	A 324R	CDU COS AOG 16X HI	24	55
J22-BB	K53-7	A 324L	CDU COS AOG 16X LO	24	57
J22-CC	K53-10	A 325R	CDU SIN AOG 16X HI	24	45
J22-DD	K53-13	A 325L	CDU SIN AOG 16X LO	24	47
J22-EE	K38-10	A 326R	X GYRO ERROR SIGNAL HI	24	146
J22-FF	K38-13	A 326L	X GYRO ERROR SIGNAL LO	24	148
J22-GG	TB13-7B	A 327R	INNER GIMBAL ERROR SIGNAL HI	24	150
J22-HH	TB13-8B	A 327L	INNER GIMBAL ERROR SIGNAL LO	24	152
J22-JJ	K38-4	A 328R	Z GYRO ERROR SIGNAL HI	24	155
J22-KK	K38-7	A 328L	Z GYRO ERROR SIGNAL LO	24	158
J22-LL	K54-10	A 329R	MG ERROR SIGNAL HI	24	160
J22-MM	K54-13	A 329L	MG ERROR SIGNAL LO	24	163
J22-NN	K54-4	A 330R	OG ERROR SIGNAL HI	24	166
J22-PP	K54-7	A 330L	OG ERROR SIGNAL LO	24	169
J23	55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)				
J23-A	TB13-13D	A 331R	26 V 800 CPS 5 PER CENT HI	20	185
J23-B	TB13-14D	A 331L	28 V 800 CPS 5 PER CENT LO	20	186
J23-C	E89B	A 332	CABLE W43 SHIELD GND	20	3
J23-D			SPARE CONTACT		
J23-E	TB6-14C	A 334R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
J23-F	TB6-13C	A 334L	SCT MOTOR CONTROL CT (+28 VDC HI)	24	192
J23-G	TB6-12C	A 334Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
J23-H	E89B	A 335	SHIELD GROUND	20	3
J23-J	TB13-17B	A 336R	28 V 800 CPS 1 PER CENT HI	20	198
J23-K	TB13-18B	A 336L	28 V 800 CPS 1 PER CENT LO	20	200
J23-L			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J23	55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)				
J23-M			SPARE CONTACT		
J23-N	J41-K•	A 337R	WIRED SPARE	24	203
J23-P	J41-M•	A 337L	WIRED SPARE	24	205
J23-R	E89B	A 338	SHIELD GROUND	20	3
J23-S	J41-U	A 339R	WIRED SPARE	24	207
J23-T	J41-T	A 339L	WIRED SPARE	24	208
J23-U	J41-S	A 339Y	WIRED SPARE	24	209
J23-V	J35-U	A 340R	SCT 1X TRUNNION RSVR COS HI P3	24	210
J23-W	J35-V	A 340L	SCT 1X TRUNNION RSVR COS LO P1	24	211
J23-X	J35-W	A 341R	SCT 1X TRUNNION RSVR P2	24	212
J23-Y	J35-X	A 341L	SCT 1X TRUNNION RSVR P4	24	213
J23-Z			SPARE CONTACT		
J23-A•			SPARE CONTACT		
J23-B•	TB6-11C	A 342R	SCT MOTOR CONTROL CT (+28 VDC HI)	20	187
J23-C•	TB6-10C	A 342L	SCT SHAFT MOTOR CONTROL WINDING	20	1[illegible]
J23-D•	TB6-9C	A 342Y	SCT SHAFT MOTOR CONTROL WINDING	20	18[illegible]
J23-E•	J41-V	A 343R	WIRED SPARE	22	1[illegible]
J23-F•	J41-W	A 343L	WIRED SPARE	22	193
J23-G•	J41-Y	A 344R	WIRED SPARE	24	195
J23-H•	J41-Z	A 344Y	WIRED SPARE	24	196
J23-I•	J41-X	A 344L	WIRED SPARE	24	197
J23-J•	TB7-3B	A 345R	SCT 1/2 X SHAFT RSVR P3	24	199
J23-K•	TB7-4B	A 345L	SCT 1/2 X SHAFT RSVR P1	24	201
J23-M•	TB13-4A	A 346R	SCT 1/2 X SHAFT RSVR P2 LO	24	202
J23-N•	TB13-5A	A 346L	SCT 1/2 X SHAFT RSVR P4 HI	24	204
J23-P•			SPARE CONTACT		
J23-Q•			SPARE CONTACT		
J23-R•	TB6-1A	A 347R	LAMP VOLTAGE	24	206
J23-S•	TB6-4A	A 347L	LAMP VOLTAGE	24	7
J23-T•			SPARE CONTACT		
J23-U•			SPARE CONTACT		
J23-V•			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J23	55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)				
J23-W•			SPARE CONTACT		
J23-X•			SPARE CONTACT		
J23-Y•			SPARE CONTACT		
J23-Z•			SPARE CONTACT		
J23-AA			SPARE CONTACT		
J23-BB			SPARE CONTACT		
J23-CC			SPARE CONTACT		
J23-EE			SPARE CONTACT		
J23-FF			SPARE CONTACT		
J23-GG			SPARE CONTACT		
J23-HH			SPARE CONTACT		
J24	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J24-A	J35-E	A 349R	SXT SHAFT MOTOR CONTROL WINDING RED	20	214
J24-B	J35-G	A 349L	28 VDC OPTICS HI	20	217
J24-C	J35-F	A 349Y	SXT SHAFT MOTOR CONTROL WINDING BLACK	20	220
J24-D	J44-V	A 350W	800 CPS 28 V 5 PERCENT HI OPTICS SWITCHED	20	222
J24-E	TB13-14F	A 264	28V 800 CPS 5 PERCENT LO	20	186
J24-F	J35-W•	A 351R	SXT TRUNNION MOTOR CONTROL WINDING RED	24	225
J24-G	J35-V•	A 351L	28 VDC OPTICS HI	24	227
J24-H	J35-X•	A 351Y	SXT TRUNNION MOTOR CONTROL WINDING BLACK	24	229
J24-J	TB13-19B	A 352R	800 CPS 28 V 1 PERCENT HI OPTICS	24	198
J24-K	TB13-20B	A 352L	800 CPS 28 V 1 PERCENT LO OPTICS	24	200
J24-L	TB6-2B	A 353R	400 CPS VARIABLE ILLUMINATION POWER	24	206
J24-M	TB6-5B	A 353L	6 VOLT 400 CPS LO	24	7
J24-N			SPARE CONTACT		
J24-P			SPARE CONTACT		
J24-R			SPARE CONTACT		
J24-S	E93B	A 356	OPTICS 0 VDC	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J24	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J24-T	E93B	A 357	OPTICS 0 VDC	20	3
J24-U	E93B	A 358	CABLE W44 SHIELD GROUND	20	3
J24-V			SPARE CONTACT		
J24-W			SPARE CONTACT		
J24-X			SPARE CONTACT		
J24-Y	J42-CC	A 359L	SXT AT 64X RESOLVER SINE LO	24	243
J24-Z	J42-DD	A 359R	SXT AT 64X RESOLVER SINE HI	24	244
J24-A•	J42-AA	A 360R	SXT AT 64X RESOLVER COSINE HI	24	215
J24-B•	J42-BB	A 360L	SXT AT 64X RESOLVER COSINE LO	24	218
J24-C•	J41-Y•	A 361R	SXT TRUNNION 1X RESOLVER ERROR HI	24	221
J24-D•	J41-Z•	A 361L	SXT TRUNNION 1X RESOLVER ERROR LO	24	223
J24-E•	TB7-5A	A 362R	TRUNNION CDU 1/4X COSINE HI	24	224
J24-F•	TB7-6A	A 362L	TRUNNION CDU 1/4X COSINE LO	24	226
J24-G•	TB17-18A	A 363R	TRUNNION CDU 1/4X SINE HI	24	228
J24-H•	TB17-17A	A 363L	TRUNNION CDU 1/4X SINE LO	24	230
J24-I•			SPARE CONTACT		
J24-J•			SPARE CONTACT		
J24-K•	J41-BB	A 364R	WIRED SPARE	22	232
J24-M•	J41-CC	A 364L	WIRED SPARE	22	233
J24-N•	J42-GG	A 365R	SXT AS 16X RESOLVER SINE HI	24	235
J24-P•	J42-HH	A 365L	SXT AS 16X RESOLVER SINE LO	24	237
J24-Q•	J42-FF	A 366R	SXT AS 16X RESOLVER COSINE LO	24	239
J24-R•	J42-EE	A 366L	SXT AS 16X RESOLVER COSINE HI	24	240
J24-S•			SPARE CONTACT		
J24-T•			SPARE CONTACT		
J24-U•	J41-DD	A 368R	WIRED SPARE	22	241
J24-V•	J41-EE	A 368L	WIRED SPARE	22	242
J24-W•	TB13-4B	A 369R	SHAFT CDU 1/2X COSINE LO P4	24	202
J24-X•	TB13-5B	A 369L	SHAFT CDU 1/2X COSINE HI P2	24	204
J24-Y•	TB7-3A	A 370L	SHAFT CDU 1/2X SINE HI P1	24	199
J24-Z•	TB7-4A	A 370R	SHAFT CDU 1/2X SINE LO P3	24	201
J24-AA	J41-HH	A 373W	SXT SHAFT 1/2X RESOLVER LOAD	24	216

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(CONT.) J24			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J24-BB	J41-GG	A 371R	SXT SHAFT 1/2X RESOLVER ERROR LO	24	219
J24-CC	TB13-17C	A 372R	800 CPS 28 V 1 PERCENT HI OPTICS	24	198
J24-DD	TB13-18C	A 372L	800 CPS 28 V 1 PERCENT LO OPTICS	24	200
J24-EE			SPARE CONTACT		
J24-FF			SPARE CONTACT		
J24-GG			SPARE CONTACT		
J24-HH	J41-FF	A 371L	SXT SHAFT 1/2X RESOLVER ERROR HI	24	231
J24-JJ	TB13-19C	A 270R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
J24-KK	TB13-20C	A 270L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
J24-LL			SPARE CONTACT		
J24-MM	J35-EE	A 375R	AS 16X RESOLVER P2 TRIM	24	234
J24-NN	J35-FF	A 375L	AT 64X RESOLVER P2 TRIM	24	236
J24-PP	J35-GG	A 375Y	AT 64X RESOLVER P2 TRIM	24	238
			J25 61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)		
J25-A	XF5-1	A1108R	2 V 3200 CPS HI	20	245
J25-B	E43B	A 376	CABLE W39 SHIELD GROUND	20	3
J25-C	E6	A1108L	2 V 3200 CPS LO	20	6
J25-D	J44-F*	A 377W	IRIG ZERO RESISTANCE	24	249
J25-E	J44-G*	A 378W	ACCEL ZERO RESISTANCE	24	251
J25-F	J44-I*	A 379W	ACCEL GAIN RESISTANCE	24	253
J25-G	J44-K*	A 380W	IRIG GAIN RESISTANCE	24	255
J25-H	J11-K*	A 283	+20 VDC CONDITIONING	24	76
J25-J	J11-I*	A 279	0 VDC CONDITIONING	24	75
J25-K	TB13-12F	A 785	+28 VDC IMU	20	90
J25-L			SPARE CONTACT		
J25-M	TB13-1E	A 383R	800 CPS 5 PERCENT CDU AND BLOWER HI	20	107
J25-N	TB13-2E	A 383L	800 CPS 5 PERCENT CDU AND BLOWER LO	20	109
J25-P	J11-E*	A 281R	800 CPS 28 V 5 PCT IMU WH PH A (HI)	24	69

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J25			61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)		
J25-R	J11-F*	A 281Y	800 CPS 28 V 5 PCT IMU WH PH B (HI)	24	71
J25-S	J11-G*	A 281L	800 CPS 28 V 5 PCT IMU WH LO	24	72
J25-T	TB11-4D	A 385R	28 V 800 CPS 1 PERCENT ISS 0 DEG HI	24	268
J25-U	TB11-6D	A 385L	28 V 800 CPS 1 PERCENT ISS 0 DEG LO	24	269
J25-V	TB17-20D	A 386R	2.5 VOLT 25.6 KC HI	24	270
J25-W	TB17-19D	A 386L	2.5 VOLT 25.6 KC LO	24	271
J25-X			SPARE CONTACT		
J25-Y			SPARE CONTACT		
J25-Z			SPARE CONTACT		
J25-A*	J3-DD	A 388R	3200 CPS 2V FDBK HI	20	246
J25-B*	J3-CC	A 388L	3200 CPS 2V FDBK LO	20	247
J25-C*	TB13-9B	A 389	0 VDC (SPACECRAFT)	20	248
J25-D*	K8-1	A 390	28 VDC FOR M AND DV	20	250
J25-E*	J9-FF	A 223	DUCOSYN EXC SWITCHING RELAY HI	20	252
J25-F*	J9-GG	A 224	DUCOSYN EXC SWITCHING RELAY LO	20	254
J25-G*	J11-CC	A 296R	IMU PRESSURE MONITOR HI	24	66
J25-H*	J11-DD	A 296L	IMU PRESSURE MONITOR LO	24	68
J25-I*	J3-K	A1110R	25.6 KC HI IMU	20	257
J25-J*	J3-L	A1110L	25.6 KC LO IMU	20	258
J25-K*	TB13-10D	A 265	ZEROING RESOLVER EXCITATION	24	260
J25-M*	TB13-11D	A 392	28 VDC CDU NOT LOCK	24	263
J25-N*	TB11-19B	A1125	MG LOCK INDICATION	20	265
J25-P*	J11-F	A 249W	IMU TEMP CONTR FAIL LIGHT HI	22	70
J25-Q*	TB12-19	A1111	28 VDC ISS STANDBY HI	20	88
J25-R*			SPARE CONTACT		
J25-S*	J11-P*	A 286	+28 VDC AGC	20	84
J25-T*	J11-Q*	A 287	0 VDC IMU	20	86
J25-U*	J11-U*	A 291R	IG TORQ MTR HI	24	93
J25-V*	J11-V*	A 291L	IG TORQ MTR RET	24	95
J25-W*	J11-W*	A 292R	MG TORQ MTR HI	24	97
J25-X*	J11-X*	A 292L	MG TORQ MTR RET	24	99
J25-Y*	J11-Y*	A 293R	OG TORQ MTR HI	24	101

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J25			61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)		
J25-Z*	J11-Z*	A 293L	OG TORQ MTR RET	24	102
J25-AA	J11-LL	A 297	ACCEL TEMP (TELE)	24	77
J25-BB	J11-MM	A 298	IRIG TEMP (TELE)	24	79
J25-CC	J11-H*	A 282	TEMP CONTR SIG LO	20	74
J25-DD	J11-NN	A 299	HTR CURR (TELE)	24	82
J25-EE	J11-PP	A 300	BLWR CURR SENSOR (TELE)	24	85
J25-FF	J11-M*	A 284	+2.5 VDC CONDITIONING HI	24	78
J25-GG	J11-N*	A 285	2.5 VDC CONDITIONING LO	24	81
J25-HH	K47-10	A 394R	MG CDU MDA OUTPUT HI	22	256
J25-JJ	K47-7	A 394Y	0 VDC IMU C.T.	22	259
J25-KK	K47-4	A 394L	MG CDU MDA OUTPUT LO	22	261
J25-LL	K51-10	A 395R	OG CDU MDA OUTPUT HI	22	262
J25-MM	K51-7	A 395Y	0 VDC IMU C.T.	22	264
J25-NN	K51-4	A 395L	OG CDU MDA OUTPUT LO	22	266
J25-PP	K22-7	A 396	28 VDC HI	20	267
			J26 61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)		
J26-A	SHLD A399	A 399A	SHIELD FEEDTHRU	22	272
J26-B	E47B	A 397	CABLE W40 SHIELD GROUND	20	3
J26-C	J9-C	A1078	27 VDC RLP HI	20	273
J26-D	J11-C	A1197	+32 VDC PIP	20	620
J26-E	J11-E	A1198	+120 VDC PIP	20	622
J26-F	J11-D	A1199	+32 VDC, +120 VDC PIP RET.	20	621
J26-G	J33-V*	A 398R	MG CDU ENCODER PHASE 1	24	277
J26-H	J33-W*	A 398L	MG CDU ENCODER PHASE 2	24	279
J26-J	J33-X*	A 398Y	MG CDU ENCODER COMMON	24	281
J26-K	J38-V*	A 399R	IG CDU ENCODER PHASE 1	24	282
J26-L	J38-W*	A 399L	IG CDU ENCODER PHASE 2	24	283
J26-M	J38-X*	A 399Y	IG CDU ENCODER COMMON	24	284

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J26			61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)		
J26-N	J32-V*	A 400R	OG CDU ENCODER PHASE 1	24	286
J26-P	J32-W*	A 400L	OG CDU ENCODER PHASE 2	24	289
J26-R	J32-X*	A 400Y	OG CDU ENCODER COMMON	24	292
J26-S	SHLD A398	A 398A	SHIELD FEEDTHRU	22	293
J26-T	SHLD A400	A 400A	SHIELD FEEDTHRU	22	294
J26-U	TB7-9B	A 401R	DUCOSYN EXCITATION FEEDBACK HI	20	80
J26-V	TB7-10B	A 401L	DUCOSYN EXCITATION FEEDBACK LO	20	83
J26-W	J44-J*	A 402W	IRIG TEMP GAIN SWITCH N.C.	24	298
J26-X			SPARE CONTACT		
J26-Y			SPARE CONTACT		
J26-Z			SPARE CONTACT		
J26-A*			SPARE CONTACT		
J26-B*			SPARE CONTACT		
J26-C*			SPARE CONTACT		
J26-D*	TB13-7C	A 405R	INNER GIMBAL ERROR SIGNAL HI	22	150
J26-E*	TB13-8C	A 405L	INNER GIMBAL ERROR SIGNAL LO	22	152
J26-F*			SPARE CONTACT		
J26-G*			SPARE CONTACT		
J26-H*	K54-11	A 407R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
J26-I*	K54-14	A 407L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
J26-J*	K55-4	A 408R	OUTER GIMBAL ERROR SIGNAL HI	24	166
J26-K*	K55-7	A 408L	OUTER GIMBAL ERROR SIGNAL LO	24	169
J26-M*	K60-7	A 409R	IG CDU 16X ERROR SIGNAL HI	24	285
J26-N*	K60-4	A 409L	IG CDU 16X ERROR SIGNAL LO	24	287
J26-P*	K43-16	A 410R	IG CDU 1X ERROR SIGNAL HI	24	290
J26-Q*	K43-13	A 410L	IG CDU 1X ERROR SIGNAL LO	24	291
J26-R*	K42-10	A 411R	IG CDU MDA TACH SIGNAL	24	30
J26-S*	K42-7	A 411L	IG CDU MDA INPUT RETURN	24	32
J26-T*	K42-4	A 411Y	IG CDU MDA SLEW SIGNAL	24	295
J26-U*	K64-7	A 412R	MG CDU 16X ERROR SIGNAL HI	24	296
J26-V*	K64-4	A 412L	MG CDU 16X ERROR SIGNAL LO	24	297
J26-W*	K47-16	A 413R	MG CDU 1X ERROR SIGNAL HI	24	299

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J26	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J26-X*	K47-13	A 413L	MG CDU 1X ERROR SIGNAL LO	24	300
J26-Y*	K46-16	A 414R	MG CDU 1/2X ERROR SIGNAL HI	24	58
J26-Z*	K46-13	A 414L	MG CDU 1/2X ERROR SIGNAL LO	24	59
J26-AA			SPARE CONTACT		
J26-BB	K46-10	A 415R	MG CDU MDA TACH SIGNAL	24	34
J26-CC	K46-7	A 415L	MG CDU MDA INPUT RETURN	24	36
J26-DD	K46-4	A 415Y	MG CDU MDA SLEW SIGNAL	24	274
J26-EE	K68-7	A 416R	OG CDU 16X ERROR SIGNAL HI	24	275
J26-FF	K68-4	A 416L	OG CDU 16X ERROR SIGNAL LO	24	276
J26-GG	K50-16	A 417R	OG CDU 1X ERROR SIGNAL HI	24	278
J26-HH	K50-13	A 417L	OG CDU 1X ERROR SIGNAL LO	24	280
J26-JJ	K51-16	A 418R	OG CDU 1/2X ERROR SIGNAL HI	24	54
J26-KK	K51-13	A 418L	OG CDU 1/2X ERROR SIGNAL LO	24	56
J26-LL	K50-10	A 419R	OG CDU MDA TACH SIGNAL	24	38
J26-MM	K50-7	A 419L	OG CDU MDA INPUT RETURN	24	41
J26-NN	K50-4	A 419Y	OG CDU MDA SLEW SIGNAL	24	288
J26-PP			SPARE CONTACT		
	J27	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J27-A	J3-EE	A1107R	3200 CPS GSE PWR SUP HI	20	301
J27-B	E488	A 420	CABLE SHIELD GROUND	20	3
J27-C	J3-FF	A1107L	3200 CPS GSE PWR SUP LO	20	304
J27-D			SPARE CONTACT		
J27-E			SPARE CONTACT		
J27-F			SPARE CONTACT		
J27-G			SPARE CONTACT		
J27-H			SPARE CONTACT		
J27-J			SPARE CONTACT		
J27-K			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J27	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J27-L			SPARE CONTACT		
J27-M	J38-A*	A 421	IG CDU MDA PLUS 28 VDC	20	310
J27-N	J33-A*	A 422	MG CDU MDA PLUS 28 VDC	20	311
J27-P	J32-Z	A 423	OG CDU MDA PLUS 28 VDC	20	312
J27-R			SPARE CONTACT		
J27-S	TB17-8A	A 424	CONDITION LAMP TEST	24	315
J27-T	J2-J	A1194L	800 CPS 28V 5 PERCENT IMU WHEELS LO	20	117
J27-U	J2-H	A1196Y	800 CPS 28V 5 PERCENT IMU WHEELS PH B	20	115
J27-V	J2-G	A1196R	800 CPS 28V 5 PERCENT IMU WHEELS PH A	20	113
J27-W	J40-A	A1176	+28 VDC STBY BUS A	20	320
J27-X	J46-A	A1177	+28 VDC STBY BUS B	20	322
J27-Y	J40-C	A1178	+28 VDC IMU BUS A	20	324
J27-Z	J46-C	A1179	+28 VDC IMU BUS B	20	325
J27-A*	J10-NN	A 428R	3200 CPS 2 V HI	20	48
J27-B*	J10-PP	A 428L	3200 CPS 2 V LO	20	50
J27-C*			SPARE CONTACT		
J27-D*			SPARE CONTACT		
J27-E*			SPARE CONTACT		
J27-F*	J11-X	A 259R	25.6 KC HI IMU	24	98
J27-G*	J11-Y	A 259L	25.6 KC LO IMU	24	100
J27-H*	J11-A*	A 260R	800 CPS 28 V 1 PCT HI IMU	24	62
J27-I*	J11-B*	A 260L	800 CPS 28 V 1 PCT LO IMU	24	64
J27-J*	E87B	A 432	ISS 0 VDC COMPUTER COMMON	20	7
J27-K*			SPARE CONTACT		
J27-M*	J11-C*	A 280R	800 CPS 28 V 5 PCT L-90 DEG IMU HI	24	65
J27-N*	J11-D*	A 280L	800 CPS 28 V 5 PCT L-90 DEG IMU LO	24	67
J27-P*			SPARE CONTACT		
J27-Q*	J33-I*	A 436W	MG CDU 1X RESOLVER LOAD	24	313
J27-R*	J38-I*	A 437W	IG CDU 1X RESOLVER LOAD	24	314
J27-S*	J32-I*	A 438W	OG CDU 1X RESOLVER LOAD	24	316
J27-T*	J32-A*	A 439W	OG CDU 16X RESOLVER LOAD	24	317
J27-U*	J40-F	A1180	0 VDC IMU	20	318

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J27	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J27-V*	J40-A*	A1181	+28 VDC AGC BUS A	20	319
J27-W*	J46-F*	A1182	+28 VDC AGC BUS B	20	321
J27-X*	J40-F*	A1183	+28 VDC STBY BUS B	20	323
J27-Y*			SPARE CONTACT		
J27-Z*	J8-V	A 155	MANUAL CDU MODE IND TO AGC	24	326
J27-AA	TB13-6B	A 440	LOCK CDU RELAY CONTROL	24	302
J27-BB	TB11-1B	A 441	FINE ALIGN RELAY CONTROL	24	303
J27-CC	J45-P*	A 442	COARSE ALIGN RELAY CONTROL	24	305
J27-DD	J45-Q*	A 443	ENTRY RELAY CONTROL	24	306
J27-EE	J45-R*	A 444	ZERO ENCODER RELAY CONTROL	24	307
J27-FF			SPARE CONTACT		
J27-GG			SPARE CONTACT		
J27-HH			SPARE CONTACT		
J27-JJ			SPARE CONTACT		
J27-KK	J39-CC	A 448	DAC INHIBIT SIGNAL	24	308
J27-LL	J8-U	A 154	ZERO ENCODER MODE IND TO AGC	24	309
J27-MM	K42-16	A 449R	IG CDU 1/2X ERROR SIGNAL HI	24	60
J27-NN	K42-13	A 449L	IG CDU 1/2X ERROR SIGNAL LO	24	61
J27-PP	K22-8	A 450	28 VDC FOR PIPA POWER SUPPLIES	20	267
	J30	14 PIN CONNECTOR MS 3102A28-20SW (1896853-201)			
J30-A	TB3-9	A 451	+28 VDC OPTICS BUS A	14	1
J30-B	TB3-10	A 452	+28 VDC OPTICS BUS A	14	1
J30-C	TB3-3	A 453	+28 VDC OPTICS BUS B	14	351
J30-D	TB3-2	A 454	+28 VDC OPTICS BUS B	14	351
J30-E	TB14-4	A 455	0 VDC OPTICS	12	7
J30-F	J46-G	A1185	+28 VDC OPTICS BUS B	20	352
J30-G	TB15-16	A 976	SHIELD GROUND	12	3
J30-H	J40-G	A1184	+28 VDC OPTICS BUS A	20	353

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J30	14 PIN CONNECTOR MS 3102A28-20SW (1896853-201)				
J30-J	J40-B*	A1186	0 VDC OPTICS	20	354
J30-K	TB15-3	A1076	CABLE W45 SHIELD GROUND	16	3
J30-L	TB7-14D	A1189	27 VDC RLP LO	20	355
J30-M	TB13-3B	A1190	27 VDC RLP LO OSS ONLY	20	356
J30-N			SPARE NO. 16 CONTACT		
J30-P			SPARE NO. 12 CONTACT		
	J31	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)			
J31-A			SPARE CONTACT		
J31-B	E50B	A 457	CABLE W46 SHIELD GROUND	20	3
J31-C	SHLD A471	A 471A	WIRED SPARE	22	358
J31-D	R2-1	A1127	6 VOLT 400 CPS OSS LOAD	20	360
J31-E	TB6-6D	A1128	6 VOLT 400 CPS LAMP POWER LO	20	7
J31-F			SPARE CONTACT		
J31-G			SPARE CONTACT		
J31-H			SPARE CONTACT		
J31-J			SPARE CONTACT		
J31-K			SPARE CONTACT		
J31-L			SPARE CONTACT		
J31-M			SPARE CONTACT		
J31-N			SPARE CONTACT		
J31-P			SPARE CONTACT		
J31-R			SPARE CONTACT		
J31-S			SPARE CONTACT		
J31-T			SPARE CONTACT		
J31-U			SPARE CONTACT		
J31-V			SPARE CONTACT		
J31-W			SPARE CONTACT		
J31-X			SPARE CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J31	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J31-Y	TB13-15B	A 459R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198
J31-Z	TB13-16B	A 459L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
J31-A*			SPARE CONTACT		
J31-B*	TB13-15E	A 460R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198
J31-C*	TB13-16E	A 460L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
J31-D*	TB13-16D	A1061	28 V 800 CPS 1 PERCENT 0 DEG LO	20	200
J31-E*	TB17-18B	A 461R	TRUNNION CDU 1/4X SIN HI	24	228
J31-F*	TB17-17B	A 461L	TRUNNION CDU 1/4X SIN LO	24	230
J31-G*	TB7-5B	A 462R	TRUNNION CDU 1/4X COS HI	24	224
J31-H*	TB7-6B	A 462L	TRUNNION CDU 1/4X COS LO	24	226
J31-I*	TB17-13A	A 463R	TRUNNION CDU 1/2X SIN HI P2	24	363
J31-J*	TB17-14A	A 463L	TRUNNION CDU 1/2X SIN LO P3	24	364
J31-K*	TB17-14C	A 271	TRUNNION CDU 1/2 X SIN LO	24	368
J31-M*	J41-Q*	A 464R	WIRED SPARE	24	369
J31-N*	J41-R*	A 464L	WIRED SPARE	24	370
J31-P*	J41-S*	A 465R	TRUNNION RESOLVER LOAD 1/2X S2	24	371
J31-Q*	J41-T*	A 465L	TRUNNION RESOLVER LOAD 1/2X S4	24	372
J31-R*	J36-AA	A 466R	WIRED SPARE	24	373
J31-S*	J36-BB	A 466L	WIRED SPARE	24	374
J31-T*	J36-CC	A 468W	WIRED SPARE	24	375
J31-U*	J42-X*	A 469L	TRUNNION CDU 16X SIN LO	24	376
J31-V*	J42-W*	A 469R	TRUNNION CDU 16X SIN HI	24	377
J31-W*	J42-Z*	A 470L	TRUNNION CDU 16X COS LO	24	378
J31-X*	J42-Y*	A 470R	TRUNNION CDU 16X COS HI	24	379
J31-Y*	J36-DD	A 471R	WIRED SPARE	24	360
J31-Z*	J36-EE	A 471L	WIRED SPARE	24	357
J31-AA	J36-FF	A 471Y	WIRED SPARE	24	359
J31-BB			SPARE CONTACT	24	361
J31-CC	TB17-15C	A 472R	25.6 KC ENCODER EXCITATION HI	24	185
J31-DD	TB17-16C	A 472L	25.6 KC ENCODER EXCITATION LO	24	186
J31-EE	TB13-13B	A 473W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI		
J31-FF	TB13-14B	A 474	800 CPS 5 PERCENT LO		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J31	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J31-GG			SPARE CONTACT		
J31-HH	J36-GG	A 476R	WIRED SPARE	24	362
J31-JJ	J36-HH	A 476L	WIRED SPARE	24	365
J31-KK	J35-N*	A1138R	TRUNNION CDU MOTOR CONTROL WINDING HI	20	366
J31-LL	J35-N*	A1138L	TRUNNION CDU MOTOR CONTROL WINDING LO	20	367
J31-MM	K27-3	A1141	TRUNNION CDU MOTOR CONTROL WINDING C.T.	20	11
J31-NN	TB6-2E	A 478R	6 VOLT 400 CPS LAMP POWER HI	22	206
J31-PP	TB6-5E	A 478L	6 VOLT 400 CPS LAMP POWER LO	22	7
J32	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J32-A			SPARE CONTACT		
J32-B	E52B	A 480	CABLE W47 SHIELD GROUND	20	3
J32-C	SHLD A400	A 400B	SHILD FEEDTHRU	22	294
J32-D	R1-1	A1129	6 VOLT 400 CPS ISS LOAD	20	381
J32-L	TB6-5C	A1130	6 VOLT 400 CPS LAMP POWER LO	20	7
J32-F			SPARE CONTACT		
J32-G			SPARE CONTACT		
J32-H			SPARE CONTACT		
J32-J			SPARE CONTACT		
J32-K			SPARE CONTACT		
J32-L			SPARE CONTACT		
J32-M			SPARE CONTACT		
J32-N			SPARE CONTACT		
J32-P			SPARE CONTACT		
J32-R			SPARE CONTACT		
J32-S			SPARE CONTACT		
J32-T			SPARE CONTACT		
J32-U			SPARE CONTACT		
J32-V			SPARE CONTACT		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J32	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J32-W			SPARE CONTACT		
J32-X			SPARE CONTACT		
J32-Y			SPARE CONTACT		
J32-Z	J27-P	A 423	OG CDU MDA PLUS 28 VDC	20	312
J32-A*	J27-T*	A 439W	OG CDU 16X RESOLVER LOAD	24	317
J32-B*	TB13-10C	A 482	ZEROING RESOLVER EXCITATION	24	260
J32-C*	TB11-4A	A 483R	28 VOLT 800 CPS 1 PERCENT HI	24	268
J32-D*	TB11-5A	A 483L	28 VOLT 800 CPS 1 PERCENT LO	24	269
J32-E*	K51-17	A 484R	OG 1/2X ERROR HI	24	54
J32-F*	K51-14	A 484L	OG 1/2X ERROR LO	24	56
J32-G*	TB17-5C	A 485R	OG 1X ERROR HI	24	278
J32-H*	TB17-6C	A 485L	OG 1X ERROR LO	24	280
J32-I*	J27-S*	A 438W	OG CDU 1X RESOLVER LOAD	24	316
J32-J*	K66-13	A 486R	OG 1X COSINE HI	24	180
J32-K*	K66-10	A 486L	OG 1X COSINE LO	24	184
J32-M*	K66-7	A 487R	OG 1X SINE LO	24	151
J32-N*	K66-4	A 487L	OG 1X SINE HI	24	156
J32-P*	K68-8	A 488R	OG 16X ERROR HI	24	275
J32-Q*	K68-5	A 488L	OG 16X ERROR LO	24	276
J32-R*	K65-13	A 489R	OG 16X COSINE HI	24	55
J32-S*	K65-10	A 489L	OG 16X COSINE LO	24	57
J32-T*	K65-7	A 490R	OG 16X SINE LO	24	47
J32-U*	K65-4	A 490L	OG 16X SINE HI	24	45
J32-V*	J26-N	A 400R	OG CDU ENCODER PHASE 1	24	286
J32-W*	J26-P	A 400L	OG CDU ENCODER PHASE 2	24	289
J32-X*	J26-R	A 400Y	OG CDU ENCODER COMMON	24	292
J32-Y*	TB17-19B	A 491R	25.6 KC ENCODER EXCITATION LO	24	271
J32-Z*	TB17-20B	A 491L	25.6 KC ENCODER EXCITATION HI	24	270
J32-AA	TB13-12B	A 17	+28 VDC (IMU)	24	90
J32-BB	TB13-1B	A 492R	28 V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
J32-CC	TB13-2B	A 492L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
J32-DD	TB13-11C	A 494	+28 VDC NOT LOCK	24	263

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J32	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J32-EE	K50-8	A 495L	OG CDU MDA LO	24	41
J32-FF	K50-5	A 495Y	OG CDU MDA SLEW	24	288
J32-GG	K50-11	A 495R	OG CDU MDA TACH	24	38
J32-HH	K51-5	A 496L	OG CDU MDA OUTPUT LO	24	266
J32-JJ	K51-11	A 496R	OG CDU MDA OUTPUT HI	24	262
J32-KK	K51-7	A 496Y	OG CDU MOTOR C.T. (0 VDC)	24	264
J32-LL	TB6-1C	A 497R	6 VOLT 400 CPS LAMP POWER HI	22	206
J32-MM	TB6-4C	A 497L	6 VOLT 400 CPS LAMP POWER LO	22	7
J32-NN	TB11-2C	A 498W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J32-PP	TB11-2B	A 499W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J33	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J33-A			SPARE CONTACT		
J33-B	E54B	A 501	CABLE W48 SHIELD GROUND	20	3
J33-C	SHLD A398	A 398B	SHIELD FEEDTHRU	22	293
J33-D			SPARE CONTACT		
J33-E	J4-NN	A1121	MASTER WARNING LIGHT RETURN	20	382
J33-F	J4-PP	A1122	+28 VDC SPACECRAFT	20	383
J33-G	J4-LL	A1119	MASTER CAUTION LIGHT RETURN	20	384
J33-H	J4-MM	A1120	+28 VDC SPACECRAFT	20	385
J33-J			SPARE CONTACT		
J33-K			SPARE CONTACT		
J33-L			SPARE CONTACT		
J33-M			SPARE CONTACT		
J33-N			SPARE CONTACT		
J33-P			SPARE CONTACT		
J33-R			SPARE CONTACT		
J33-S			SPARE CONTACT		
J33-T			SPARE CONTACT		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J33			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J33-U			SPARE CONTACT		
J33-V			SPARE CONTACT		
J33-W			SPARE CONTACT		
J33-X			SPARE CONTACT		
J33-Y			SPARE CONTACT		
J33-Z			SPARE CONTACT		
J33-A*	J27-N	A 422	MG CDU MDA PLUS 28 VDC	20	311
J33-B*	TB13-10B	A 503	ZEROING RESOLVER EXCITATION	24	260
J33-C*	TB11-4B	A 504R	28 VOLT 800 CPS 1 PERCENT HI	24	268
J33-D*	TB11-5B	A 504L	28 VOLT 800 CPS 1 PERCENT LO	24	269
J33-E*	K46-17	A 505R	MG 1/2X ERROR HI	24	58
J33-F*	K46-14	A 505L	MG 1/2X ERROR LO	24	59
J33-G*	TB17-3A	A 506R	MG 1X ERROR HI	24	299
J33-H*	TB17-4A	A 506L	MG 1X ERROR LO	24	300
J33-I*	J27-Q*	A 436W	MG CDU 1X RESOLVER LOAD	24	313
J33-J*	K62-13	A 507R	MG 1X COSINE HI	24	165
J33-K*	K62-10	A 507L	MG 1X COSINE LO	24	168
J33-M*	K62-7	A 508R	MG 1X SINE LO	24	172
J33-N*	K62-4	A 508L	MG 1X SINE HI	24	170
J33-P*	K64-8	A 509R	MG 16X ERROR HI	24	296
J33-Q*	K64-5	A 509L	MG 16X ERROR LO	24	297
J33-R*	K61-13	A 510R	MG 16X COSINE HI	24	28
J33-S*	K61-10	A 510L	MG 16X COSINE LO	24	29
J33-T*	K61-7	A 511R	MG 16X SINE LO	24	51
J33-U*	K61-4	A 511L	MG 16X SINE HI	24	49
J33-V*	J26-G	A 398R	MG CDU ENCODER PHASE 1	24	277
J33-W*	J26-H	A 398L	MG CDU ENCODER PHASE 2	24	279
J33-X*	J26-J	A 398Y	MG CDU ENCODER COMMON	24	281
J33-Y*	TB17-19C	A 512R	25.6 KC ENCODER EXCITATION LO	24	271
J33-Z*	TB17-20C	A 512L	25.6 KC ENCODER EXCITATION HI	24	270
J33-AA	TB13-12C	A 27	+28 VDC (IMU)	24	90
J33-BB	TB13-1C	A 513R	28 V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107

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SCALE-NONE	REV LTR C	SHEET 91 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J33			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J33-CC	TB13-2C	A 513L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
J33-DD	TB13-11B	A 515	+28 VDC CDU NOT LOCK	24	263
J33-EE	K46-8	A 516L	MG CDU MDA LO	24	36
J33-FF	K46-5	A 516Y	MG CDU MDA SLEW	24	274
J33-GG	K46-11	A 516R	MG CDU MDA TACH	24	34
J33-HH	K47-5	A 517L	MG CDU MDA OUTPUT LO	24	261
J33-JJ	K47-11	A 517R	MG CDU MDA OUTPUT HI	24	256
J33-KK	K47-7	A 517Y	MG CDU MOTOR C.T. (0 VDC)	24	259
J33-LL	TB6-1D	A 518R	6 VOLT 400 CPS LAMP POWER HI	22	206
J33-MM	TB6-4D	A 518L	6 VOLT 400 CPS LAMP POWER LO	22	7
J33-NN	TB11-2E	A 519W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J33-PP	TB11-2D	A 520W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
			J34 55 PIN CONNECTOR MS 3127E22-55S (1897054-550)		
J34-A	XF17-1	A 272W	1.5 VOLT 400 CPS 0 PH	24	39
J34-B	E62B	A 521	CABLE W49 SHIELD GROUND	20	3
J34-C	J10-E*	A1055R	400 CPS 26 V HI	24	35
J34-D	J10-F*	A1055L	400 CPS 26 V LO	24	37
J34-E	XF18-1	A 273W	1.5 VOLT 400 CPS PI PH	24	42
J34-F	TB11-19C	A1126	GIMBAL LOCK SIGNAL	20	265
J34-G	E87B	A 274	0 VDC IMU	20	7
J34-H			SPARE CONTACT		
J34-J	E87B	A 275	AGC COMMUN (SIMULATED)	20	7
J34-K	J8-BB	A 181	0 VDC IMU	20	402
J34-L	TB17-11A	A1157R	6 VOLT 400 CPS LAMP POWER HI	20	43
J34-M	J10-N	A1132W	400 CPS 6V LO	20	46
J34-N	TB17-12A	A1157L	6 VOLT 400 CPS LAMP POWER LO	20	7
J34-P	TB17-12E	A 523R	6 VOLT 400 CPS LAMP POWER LO	22	7
J34-R	TB17-12B	A 523L	6 VOLT 400 CPS LAMP POWER LO	22	7

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J34			55 PIN CONNECTOR MS 3127E22-55S (1897054-550)		
J34-S			SPARE CONTACT		
J34-T	J10-GG	A1123W	GIMBAL LOCK LIGHT HI	20	40
J34-U	TB17-10B	A 524R	115 VOLT 400 CPS LO	20	136
J34-V	TB17-9B	A 524L	115 VOLT 400 CPS HI	20	135
J34-W	TB13-9C	A 525	0 VDC (SPACECRAFT)	22	248
J34-X	J4-M	A 526	MAIN PANEL GIMBAL LOCK LIGHT	22	414
J34-Y	K8-1	A1167	+28 VDC MDV	20	250
J34-Z	K68-1	A 528	FOR GSE USE ONLY	20	417
J34-A*	J39-P	A 529R	PITCH OUTPUT ATTITUDE ERROR METER PLUS	24	386
J34-B*	J39-R	A 529L	PITCH OUTPUT ATTITUDE ERROR METER MINUS	24	388
J34-C*	J39-S	A 530R	YAW OUTPUT ATTITUDE ERROR METER PLUS	22	390
J34-D*	J39-T	A 530L	YAW OUTPUT ATTITUDE ERROR METER MINUS	22	392
J34-E*	J39-M	A 531R	ROLL OUTPUT ATTITUDE ERROR METER PLUS	24	394
J34-F*	J39-N	A 531L	ROLL OUTPUT ATTITUDE ERROR METER MINUS	24	396
J34-G*	TB6-2D	A 532R	6 VOLT 400 CPS LAMP POWER HI	22	206
J34-H*	TB6-5D	A 532L	6 VOLT 400 CPS LAMP POWER LO	22	7
J34-I*	J39-U	A 533	MODE SWITCH INTERLOCK (0 VDC)	24	400
J34-J*	J39-V	A 534	ENTRY RELAY CONTROL	24	401
J34-K*	J39-W	A 535	ENTRY MODE LIGHT	24	403
J34-M*	K60-1	A 536	FOR GSE USE ONLY	24	404
J34-N*	J8-X*	A 177	TRANSFER SWITCH INDICATION TO AGC	24	405
J34-P*	J8-Y*	A 178	ATTITUDE CONTROL MODE COMMAND FROM AGC	24	406
J34-Q*	J39-Y	A 537	ATTITUDE CONTROL SIGNAL	24	407
J34-R*	J8-Z*	A 179	MODE RELAY COMMON TO AGC	24	408
J34-S*	J39-Z	A 538	MODE RELAY COMMON	24	409
J34-T*	J39-B*	A 539	ENTRY RELAY CONTROL RESET	24	410
J34-U*	J39-C*	A 540	ZERO ENCODER RELAY CONTROL	24	411
J34-V*	J8-AA	A 180	MODE RELAY COMMON	24	412
J34-W*	K64-1	A 541	FOR GSE USE ONLY	20	413
J34-X*	J39-F*	A 542W	ZERO ENCODER MODE LIGHT	24	415
J34-Y*	J39-G*	A 543	MANUAL ALIGN ENABLE	20	416
J34-Z*	J39-H*	A 544W	COARSE ALIGN MODE LAMP	24	418

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J34			55 PIN CONNECTOR MS 3127E22-55S (1897054-550)		
J34-AA	J39-I*	A 545	COARSE ALIGN RELAY CONTROL	20	387
J34-BB	J39-J*	A 546	CDU MANUAL RELAY CONTROL	20	389
J34-CC	J39-K*	A 547W	CDU MANUAL MODE LAMP	24	391
J34-DD	J8-S	A 262	BACK-UP MODE RELAY CONTR	24	393
J34-EE	J39-N*	A 549	FINE ALIGN RELAY CONTROL	24	395
J34-FF	J39-P*	A 550W	FINE ALIGN MODE LAMP	24	397
J34-GG	J39-Q*	A 551W	ATTITUDE CONTROL MODE LAMP	24	398
J34-HH	J8-CC	A 182	ATTITUDE CONTR RELAY CONTR	24	399
			J35 61 PIN CONNECTOR MS 3127E24-61P (1897055-610)		
J35-A			SPARE CONTACT		
J35-B	E57B	A 552	CABLE W50 SHIELD GROUND	20	3
J35-C			SPARE CONTACT		
J35-D			SPARE CONTACT		
J35-E	J24-A	A 349R	SXT SHAFT MOTOR CONTROL WINDING RED	20	214
J35-F	J24-C	A 349Y	SXT SHAFT MOTOR CONTROL WINDING BLACK	20	220
J35-G	J24-B	A 349L	28 VDC OPTICS HI	20	217
J35-H	TB6-10B	A 277L	SCT SHAFT MOTOR CONTROL WINDING	20	188
J35-J	TB6-9B	A 277Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
J35-K	TB6-16A	A 277R	OPTICS +28 VDC	20	187
J35-L	TB13-13C	A 553R	28 V 800 CPS 5 PERCENT OPTICS HI	24	185
J35-M	TB13-14C	A 553L	28 V 800 CPS 5 PERCENT OPTICS LO	24	186
J35-N	TB17-15A	A 554R	2.5 V 25.6 KC OPTICS HI	24	359
J35-P	TB17-16A	A 554L	2.5 V 25.6 KC OPTICS LO	24	361
J35-R	TB6-14B	A 278R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
J35-S	TB6-12B	A 278Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
J35-T	TB6-13B	A 278L	OPTICS +28 VDC	24	192
J35-U	J23-V	A 340R	SCT 1X TRUNNION RSVR COS HI P3	24	210
J35-V	J23-W	A 340L	SCT 1X TRUNNION RSVR COS LO P1	24	211

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J35	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J35-W	J23-X	A 341R	SCT 1X TRUNNION RSVR P2	24	212
J35-X	J23-Y	A 341L	SCT 1X TRUNNION RSVR P4	24	213
J35-Y	TB13-17D	A 555R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
J35-Z	TB13-18D	A 555L	28 v 800 CPS 1 PERCENT OPTICS LO	24	200
J35-A*			SPARE CONTACT		
J35-B*			SPARE CONTACT		
J35-C*			SPARE CONTACT		
J35-D*	J37-F*	A 556W	SHAFT CDU 1X ERROR S1	24	419
J35-E*	J37-G*	A 557R	SHAFT CDU 1X ERROR S2	24	420
J35-F*	J37-H*	A 557L	SHAFT CDU 1X ERROR S3	24	421
J35-G*	J37-GG	A1139R	SHAFT CDU MOTOR CONTROL WINDING HI	20	422
J35-H*	J37-HH	A1139L	SHAFT CDU MOTOR CONTROL WINDING LO	20	423
J35-I*			SPARE CONTACT		
J35-J*	TB17-13B	A 83R	TRUNNION CDU 1/2X SIN HI P2	24	363
J35-K*	TB17-14B	A 83L	TRUNNION CDU 1/2X SIN LO P3	24	364
J35-M*	J31-KK	A1138R	TRUNNION CDU MOTOR CONTROL WINDING HI	20	366
J35-N*	J31-LL	A1138L	TRUNNION CDU MOTOR CONTROL WINDING LO	20	367
J35-P*			SPARE CONTACT		
J35-Q*	J43-X	A 559	WIRED SPARE	24	424
J35-R*			SPARE CONTACT		
J35-S*			SPARE CONTACT		
J35-T*			SPARE CONTACT		
J35-U*			SPARE CONTACT		
J35-V*	J24-G	A 351L	28 VDC OPTICS HI	24	227
J35-W*	J24-F	A 351R	SXT TRUNNION MOTOR CONTROL WINDING RED	24	225
J35-X*	J24-H	A 351Y	SXT TRUNNION MOTOR CONTROL WINDING BLACK	24	229
J35-Y*	TB13-3C	A 560	27 VDC RLP LO OSS ONLY	24	356
J35-Z*			SPARE CONTACT		
J35-AA			SPARE CONTACT		
J35-BB			SPARE CONTACT		
J35-CC			SPARE CONTACT		
J35-DD			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J35	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J35-EE	J24-MM	A 375R	AS 16X RESOLVER P2 TRIM	24	234
J35-FF	J24-NN	A 375L	AT 64X RESOLVER P2 TRIM	24	236
J35-GG	J24-PP	A 375Y	AT 64X RESOLVER P2 TRIM	24	238
J35-HH			SPARE CONTACT		
J35-JJ			SPARE CONTACT		
J35-KK			SPARE CONTACT		
J35-LL			SPARE CONTACT		
J35-MM			SPARE CONTACT		
J35-NN			SPARE CONTACT		
J35-PP			SPARE CONTACT		
	J36	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J36-A			SPARE CONTACT		
J36-B	E58B	A 561	CABLE W51 SHIELD GROUND	20	3
J36-C			SPARE CONTACT		
J36-D			SPARE CONTACT		
J36-E			SPARE CONTACT		
J36-F			SPARE CONTACT		
J36-G			SPARE CONTACT		
J36-H			SPARE CONTACT		
J36-J			SPARE CONTACT		
J36-K			SPARE CONTACT		
J36-L			SPARE CONTACT		
J36-M			SPARE CONTACT		
J36-N			SPARE CONTACT		
J36-P			SPARE CONTACT		
J36-R			SPARE CONTACT		
J36-S			SPARE CONTACT		
J36-T			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J36	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J36-U			SPARE CONTACT		
J36-V			SPARE CONTACT		
J36-W	SHLD A570	A 570A	WIRED SPARE	22	440
J36-X	SHLD A471	A 471B	WIRED SPARE	22	358
J36-Y			SPARE CONTACT		
J36-Z			SPARE CONTACT		
J36-A*			SPARE CONTACT		
J36-B*			SPARE CONTACT		
J36-C*			SPARE CONTACT		
J36-D*			SPARE CONTACT		
J36-E*	K30-16	A 562R	AS DIRECT INPUT HI (PRE-AMP PSA)	24	425
J36-F*	K30-15	A 562L	AS DIRECT INPUT LO (PRE-AMP PSA)	24	426
J36-G*	K30-19	A 563R	AS RESOLVED INPUT HI (RSVR AMP PSA)	24	427
J36-H*	K30-18	A 563L	AS RESOLVED INPUT LO (RSVR AMP PSA)	24	428
J36-I*	K19-16	A 564R	AT DIRECT INPUT HI (PRE-AMP PSA)	24	429
J36-J*	K19-15	A 564L	AT DIRECT INPUT LO (PRE-AMP PSA)	24	430
J36-K*	K19-19	A 565R	AT RESOLVED INPUT HI (RSVR AMP PSA)	24	431
J36-M*	K19-18	A 565L	AT RESOLVED INPUT LO (RSVR AMP PSA)	24	428
J36-N*	J37-N*	A 566R	WIRED SPARE	24	432
J36-P*	J37-P*	A 566L	WIRED SPARE	24	433
J36-Q*	J37-Q*	A 567W	WIRED SPARE	24	434
J36-R*	J37-R*	A 568R	SHAFT CDU 16X COSINE HI P1	24	435
J36-S*	J37-S*	A 568L	SHAFT CDU 16X COSINE LO P3	24	436
J36-T*	J37-T*	A 569R	SHAFT CDU 16X SINE HI P2	24	437
J36-U*	J37-U*	A 569L	SHAFT CDU 16X SINE LO P4	24	438
J36-V*	J37-V*	A 570R	WIRED SPARE	24	439
J36-W*	J37-W*	A 570L	WIRED SPARE	24	441
J36-X*	J37-X*	A 570Y	WIRED SPARE	24	442
J36-Y*	J37-EE	A 571R	WIRED SPARE	24	443
J36-Z*	J37-FF	A 571L	WIRED SPARE	24	444
J36-AA	J31-R*	A 466R	WIRED SPARE	24	372
J36-BB	J31-S*	A 466L	WIRED SPARE	24	373

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J36	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J36-CC	J31-T*	A 468W	WIRED SPARE	24	374
J36-DD	J31-Y*	A 471R	WIRED SPARE	24	379
J36-EE	J31-Z*	A 471L	WIRED SPARE	24	380
J36-FF	J31-AA	A 471Y	WIRED SPARE	24	357
J36-GG	J31-HH	A 476R	WIRED SPARE	24	362
J36-HH	J31-JJ	A 476L	WIRED SPARE	24	365
J36-JJ			SPARE CONTACT		
J36-KK			SPARE CONTACT		
J36-LL			SPARE CONTACT		
J36-MM			SPARE CONTACT		
J36-NN			SPARE CONTACT		
J36-PP			SPARE CONTACT		
	J37	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)			
J37-A			SPARE CONTACT		
J37-B	E61B	A 573	CABLE W52 SHIELD GROUND	20	3
J37-C	SHLD A570	A 570B	WIRED SPARE	22	440
J37-D			SPARE CONTACT		
J37-E			SPARE CONTACT		
J37-F			SPARE CONTACT		
J37-G			SPARE CONTACT		
J37-H			SPARE CONTACT		
J37-J			SPARE CONTACT		
J37-K			SPARE CONTACT		
J37-L			SPARE CONTACT		
J37-M			SPARE CONTACT		
J37-N			SPARE CONTACT		
J37-P			SPARE CONTACT		
J37-R			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J37	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J37-S			SPARE CONTACT		
J37-T			SPARE CONTACT		
J37-U			SPARE CONTACT		
J37-V			SPARE CONTACT		
J37-W			SPARE CONTACT		
J37-X			SPARE CONTACT		
J37-Y	TB13-15A	A 575R	28 V 800 CPS 0 DEG 1 PERCENT HI	24	198
J37-Z	TB13-16A	A 575L	28 V 800 CPS 0 DEG 1 PERCENT LO	24	200
J37-A*			SPARE CONTACT		
J37-B*	TB7-3D	A 576R	SHAFT CDU 1/2X SIN HI	24	199
J37-C*	TB7-4D	A 576L	SHAFT CDU 1/2X SIN LO	24	201
J37-D*	TB13-4C	A 577R	SHAFT CDU 1/2X COS HI	24	202
J37-E*	TB13-5C	A 577L	SHAFT CDU 1/2X COS LO	24	204
J37-F*	J35-D*	A 556W	SHAFT CDU 1X ERROR S1	24	419
J37-G*	J35-E*	A 557R	SHAFT CDU 1X ERROR S2	24	420
J37-H*	J35-F*	A 557L	SHAFT CDU 1X ERROR S3	24	421
J37-I*	J41-F*	A 578R	SHAFT CDU 1X SIN HI	24	445
J37-J*	J41-E*	A 578L	SHAFT CDU 1X SIN LO	24	446
J37-K*	J41-H*	A 579L	SHAFT CDU 1X COS LO	24	447
J37-M*	J41-G*	A 579R	SHAFT CDU 1X COS HI	24	448
J37-N*	J36-N*	A 566R	WIRED SPARE	24	432
J37-P*	J36-P*	A 566L	WIRED SPARE	24	433
J37-Q*	J36-Q*	A 567W	WIRED SPARE	24	434
J37-R*	J36-R*	A 568R	SHAFT CDU 16X COSINE HI P1	24	435
J37-S*	J36-S*	A 568L	SHAFT CDU 16X COSINE LO P3	24	436
J37-T*	J36-T*	A 569R	SHAFT CDU 16X SINE HI P2	24	437
J37-U*	J36-U*	A 569L	SHAFT CDU 16X SINE LO P4	24	438
J37-V*	J36-V*	A 570R	WIRED SPARE	24	439
J37-W*	J36-W*	A 570L	WIRED SPARE	24	441
J37-X*	J36-X*	A 570Y	WIRED SPARE	24	442
J37-Y*	TB17-15D	A 580R	25.6 KC ENCODER EXCITATION HI	24	359
J37-Z*	TB17-16D	A 580L	25.6 KC ENCODER EXCITATION LO	24	361

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J37	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J37-AA			SPARE CONTACT		
J37-BB	TB13-13A	A 581W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
J37-CC	TB13-14A	A 266	28 V 800 CPS 5 PERCENT LO	24	186
J37-DD			SPARE CONTACT		
J37-EE	J36-Y*	A 571R	WIRED SPARE	24	443
J37-FF	J36-Z*	A 571L	WIRED SPARE	24	444
J37-GG	J35-G*	A1139R	SHAFT CDU MOTOR CONTROL WINDING HI	20	422
J37-HH	J35-H*	A1139L	SHAFT CDU MOTOR CONTROL WINDING LO	20	423
J37-JJ	K28-3	A1140	SHAFT CDU MOTOR CONTROL WINDING C.T.	20	10
J37-KK	TB6-1E	A 583R	6 VOLT 400 CPS LAMP POWER HI	22	206
J37-LL	TB6-4E	A 583L	6 VOLT 400 CPS LAMP POWER LO	22	7
J37-MM	TB13-20D	A 584L	28 V 800 CPS 1 PERCENT LO	24	200
J37-NN	TB13-20E	A 584W	28 V 800 CPS 1 PERCENT LO	24	200
J37-PP	TB13-19D	A 584R	28 V 800 CPS 1 PERCENT HI	24	198
	J38	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)			
J38-A			SPARE CONTACT		
J38-B	E60B	A 586	CABLE W53 SHIELD GROUND	20	3
J38-C	SHLD A399	A 399B	SHIELD FEEDTHRU	22	272
J38-D			SPARE CONTACT		
J38-E			SPARE CONTACT		
J38-F			SPARE CONTACT		
J38-G			SPARE CONTACT		
J38-H			SPARE CONTACT		
J38-J			SPARE CONTACT		
J38-K			SPARE CONTACT		
J38-L			SPARE CONTACT		
J38-M			SPARE CONTACT		
J38-N			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J38	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J38-P			SPARE CONTACT		
J38-R			SPARE CONTACT		
J38-S			SPARE CONTACT		
J38-T			SPARE CONTACT		
J38-U			SPARE CONTACT		
J38-V			SPARE CONTACT		
J38-W			SPARE CONTACT		
J38-X			SPARE CONTACT		
J38-Y			SPARE CONTACT		
J38-Z			SPARE CONTACT		
J38-A*	J27-M	A 421	IG CDU MDA PLUS 28 VDC	20	310
J38-B*	TB13-10A	A 588	ZEROING RESOLVER EXCITATION	24	260
J38-C*	TB11-4C	A 589R	28 V 800 CPS 1 PERCENT HI	24	268
J38-D*	TB11-5C	A 589L	28 V 800 CPS 1 PERCENT LO	24	269
J38-E*	K42-17	A 590R	IG 1/2X ERROR HI	24	60
J38-F*	K42-14	A 590L	IG 1/2X ERROR LO	24	61
J38-G*	TB17-1A	A 591R	IG 1X ERROR HI	24	290
J38-H*	TB17-2A	A 591L	IG 1X ERROR LO	24	291
J38-I*	J27-R*	A 437W	IG CDU 1X RESOLVER LOAD	24	314
J38-J*	K58-13	A 592R	IG 1X COSINE HI	24	139
J38-K*	K58-10	A 592L	IG 1X COSINE LO	24	141
J38-M*	K58-7	A 593R	IG 1X SINE LO	24	145
J38-N*	K58-4	A 593L	IG 1X SINE HI	24	143
J38-P*	K60-8	A 594R	IG 16X ERROR HI	24	285
J38-Q*	K60-5	A 594L	IG 16X ERROR LO	24	287
J38-R*	K57-13	A 595R	IG 16X COSINE HI	24	31
J38-S*	K57-10	A 595L	IG 16X COSINE LO	24	33
J38-T*	K57-7	A 596R	IG 16X SINE LO	24	53
J38-U*	K57-4	A 596L	IG 16X SINE HI	24	52
J38-V*	J26-K	A 399R	IG CDU ENCODER PHASE 1	24	282
J38-W*	J26-L	A 399L	IG CDU ENCODER PHASE 2	24	283
J38-X*	J26-M	A 399Y	IG CDU ENCODER COMMON	24	284

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J38	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J38-Y*	TB17-19A	A 597R	25.6 KC ENCODER EXCITATION LO	24	271
J38-Z*	TB17-20A	A 597L	25.6 KC ENCODER EXCITATION HI	24	270
J38-AA	TB13-12D	A 333	IMU +28 VDC	24	90
J38-BB	TB13-1D	A 598R	28 V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
J38-CC	TB13-2D	A 598L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
J38-DD	TB13-11A	A 600	28 VDC CDU NOT LOCK	24	263
J38-EE	K42-8	A 601L	IG CDU MDA LO	24	32
J38-FF	K42-5	A 601Y	IG CDU MDA SLEW	24	295
J38-GG	K42-11	A 601R	IG CDU MDA TACH	24	30
J38-HH	K43-5	A 602L	IG CDU MDA OUTPUT LO	24	162
J38-JJ	K43-11	A 602R	IG CDU MDA OUTPUT HI	24	154
J38-KK	K43-7	A 602Y	IG CDU MOTOR C.T. (0 VDC)	24	157
J38-LL	TB6-1B	A 603R	6 VOLT 400 CPS LAMP POWER HI	22	206
J38-MM	TB6-4B	A 603L	6 VOLT 400 CPS LAMP POWER LO	22	7
J38-NN	TB11-3B	A 604W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J38-PP	TB11-2F	A 605W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
	J39	55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)			
J39-A			SPARE CONTACT		
J39-B	E62B	A 607	CABLE W54 SHIELD GROUND	20	3
J39-C			SPARE CONTACT		
J39-D			SPARE CONTACT		
J39-E			SPARE CONTACT		
J39-F			SPARE CONTACT		
J39-G			SPARE CONTACT		
J39-H			SPARE CONTACT		
J39-J			SPARE CONTACT		
J39-K			SPARE CONTACT		
J39-L			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J39			55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)		
J39-M	J34-E*	A 531R	ROLL OUTPUT ATTITUDE ERROR METER PLUS	24	394
J39-N	J34-F*	A 531L	ROLL OUTPUT ATTITUDE ERROR METER MINUS	24	396
J39-P	J34-A*	A 529R	PITCH OUTPUT ATTITUDE ERROR METER PLUS	24	386
J39-R	J34-B*	A 529L	PITCH OUTPUT ATTITUDE ERROR METER MINUS	24	388
J39-S	J34-C*	A 530R	YAW OUTPUT ATTITUDE ERROR METER PLUS	22	390
J39-T	J34-D*	A 530L	YAW OUTPUT ATTITUDE ERROR METER MINUS	22	392
J39-U	J34-I*	A 533	MODE SWITCH INTERLOCK (0 VDC)	24	400
J39-V	J34-J*	A 534	ENTRY RELAY CONTROL	24	401
J39-W	J34-K*	A 535	ENTRY MODE LIGHT	24	403
J39-X	TB17-8B	A 608	CONDITION LAMP TEST	24	315
J39-Y	J34-Q*	A 537	ATTITUDE CONTROL SIGNAL	24	407
J39-Z	J34-S*	A 538	MODE RELAY COMMON	24	409
J39-A*	J8-DD	A 183	FINE ALIGN MODE COMMAND FROM AGC	24	449
J39-B*	J34-T*	A 539	ENTRY RELAY CONTROL RESET	24	410
J39-C*	J34-U*	A 540	ZERO ENCODER RELAY CONTROL	24	411
J39-D*	J8-EE	A 184W	FINE ALIGN MODE IND TO AGC	24	451
J39-E*			SPARE CONTACT		
J39-F*	J34-X*	A 542W	ZERO ENCODER MODE LIGHT	24	415
J39-G*	J34-Y*	A 543	MANUAL ALIGN ENABLE	20	416
J39-H*	J34-Z*	A 544W	COARSE ALIGN MODE LAMP	24	418
J39-I*	J34-AA	A 545	COARSE ALIGN RELAY CONTROL	20	387
J39-J*	J34-BB	A 546	CDU MANUAL RELAY CONTROL	20	389
J39-K*	J34-CC	A 547W	CDU MANUAL MODE LAMP	24	391
J39-M*	J8-T	A 153	BACK-UP MODE RELAY CONTR	20	453
J39-N*	J34-EE	A 549	FINE ALIGN RELAY CONTROL	24	395
J39-P*	J34-FF	A 550W	FINE ALIGN MODE LAMP	24	397
J39-Q*	J34-GG	A 551W	ATTITUDE CONTROL MODE LAMP	24	398
J39-R*	J4-F*	A 69	MODE RELAY COMMON	20	454
J39-S*			SPARE CONTACT		
J39-T*	J10-M	A1134W	400 CPS VAR ILLUM PWR HI	20	44
J39-U*	J8-GG	A 186	ENTRY MODE COMMAND FROM AGC	24	455
J39-V*	TB6-3B	A 611W	VARIABLE ILLUM AND IND LAMP PWR 400 CPS HI	20	206

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J39			55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)		
J39-W*	TB6-3C	A 612W	400 CPS VARIABLE LAMP SUPPLY HI (FROM D AND C	20	206
J39-X*	J8-HH	A 187W	ENTRY MODE IND TO AGC	24	456
J39-Y*	J8-J	A 188	COARSE ALIGN MODE COMMAND FROM AGC	24	457
J39-Z*	J8-K	A 189	ZERO ENCODER MODE COMMAND FROM AGC	24	458
J39-AA	J8-L	A 190W	COARSE ALIGN MODE IND TO AGC	24	450
J39-BB			SPARE CONTACT		
J39-CC	J27-KK	A 448	DAC INHIBIT SIGNAL	24	308
J39-DD	TB13-6C	A 615	CDU MANUAL RELAY CONTROL (TO AGC)	24	302
J39-EE	TB11-1C	A 614	FINE ALIGN RELAY CONTROL (K-4)	24	303
J39-FF	J8-N	A 192	CDU MANUAL MODE COMMAND FROM AGC	24	452
J39-GG	J11-H	A 251W	IMU DELAY LIGHT HI	24	73
J39-HH			SPARE CONTACT		
			J40 31 PIN CONNECTOR MS 3102A36-9S (1896854-090)		
J40-A	J7-J*	A 135	+28 VDC STBY BUS A	20	320
J40-A	J27-W	A1176	+28 VDC STBY BUS A	20	320
J40-B			SPARE CONTACT		
J40-C	J7-I*	A 134	+28 VDC IMU BUS A	20	324
J40-C	J27-Y	A1178	+28 VDC IMU BUS A	20	324
J40-D	TB5-4	A 617	+28 VDC STBY BUS A	16	133
J40-E	TB16-7	A 618	0 VDC IMU	16	7
J40-F	J7-M*	A1173	0 VDC IMU	20	318
J40-F	J27-U*	A1180	0 VDC IMU	20	318
J40-G	J7-GG	A 151	+28 VDC OPTICS BUS A	20	353
J40-G	J30-H	A1184	+28 VDC OPTICS BUS A	20	353
J40-H			SPARE CONTACT		
J40-I	TB2-8	A 619	+28 VDC IMU BUS A	12	130
J40-J	TB2-7	A 620	+28 VDC IMU BUS A	12	130
J40-K	TB3-8	A 621	+28 VDC OPTICS BUS A	14	1

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J40			31 PIN CONNECTOR MS 3102A36-9S (1896854-090)		
J40-L	TB3-7	A 622	+28 VDC OPTICS BUS A	14	1
J40-M	TB4-8	A 623	+28 VDC AGC BUS A	14	132
J40-N	TB4-7	A 624	+28 VDC AGC BUS A	14	132
J40-O			SPARE CONTACT		
J40-P			SPARE CONTACT		
J40-R			SPARE CONTACT		
J40-S	TB16-8	A 625	0 VDC IMU	12	7
J40-T	TB16-10	A 626	0 VDC IMU	12	7
J40-U	TB14-10	A 627	0 VDC OPTICS	12	7
J40-V	TB10-4	A 628	0 VDC AGC	12	7
J40-W			SPARE CONTACT		
J40-X	TB15-15	A1106	SHIELD GROUND	12	3
J40-Y			SPARE CONTACT		
J40-Z			SPARE CONTACT		
J40-A*	J7-H*	A 133	+28 VDC AGC BUS A	20	319
J40-A*	J27-V*	A1181	+28 VDC AGC BUS A	20	319
J40-B*	J7-P*	A1175	0 VDC OPTICS	20	354
J40-B*	J30-J	A1186	0 VDC OPTICS	20	354
J40-C*	E62B	A 616	CABLE W55 SHIELD GROUND	20	3
J40-D*	TB17-9C	A 630R	AGE VIEWER AND LAMP POWER 400 CPS HI	20	135
J40-E*	TB17-10C	A 630L	AGE VIEWER AND LAMP POWER 400 CPS LO	20	136
J40-F*	J7-N*	A1174	0 VDC AGC	20	323
J40-F*	J27-X*	A1183	0 VDC AGC	20	323
			J41 61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J41-A			SPARE CONTACT	24	94
J41-B	J11-V	A 258R	800 CPS 28 V 1 PCT HI (OPTICS)	24	96
J41-C	J11-W	A 258L	800 CPS 28 V 1 PCT LO (OPTICS)	24	91
J41-D	J11-T	A 257R	800 CPS 28 V 5 PCT L-90 DEG OPTICS HI		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J41			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J41-E	J11-U	A 257L	800 CPS 28 V 5 PCT L-90 DEG OPTICS LO	24	92
J41-F	J11-R	A 256R	25.6 KC OPTICS HI	24	87
J41-G	J11-S	A 256L	25.6 KC OPTICS LO	24	89
J41-H	E63B	A 644	CABLE W54 SHIELD GROUND	20	3
J41-J			SPARE CONTACT		
J41-K			SPARE CONTACT		
J41-L			SPARE CONTACT		
J41-M			SPARE CONTACT		
J41-N	TB7-13F	A 645	OSS INTERLOCK OUT	24	355
J41-P	K20-5	A 646	COSECANT RELAY COMMAND (TO PSA)	24	470
J41-R	K20-3	A 647	ZERO OPTICS RELAY COMMAND (TO PSA)	24	471
J41-S	J23-U	A 339Y	WIRED SPARE	24	209
J41-T	J23-T	A 339L	WIRED SPARE	24	208
J41-U	J23-S	A 339R	WIRED SPARE	24	207
J41-V	J23-E*	A 343R	WIRED SPARE	22	191
J41-W	J23-F*	A 343L	WIRED SPARE	22	193
J41-X	J23-I*	A 344L	WIRED SPARE	24	197
J41-Y	J23-G*	A 344R	WIRED SPARE	24	195
J41-Z	J23-H*	A 344Y	WIRED SPARE	24	196
J41-A*			SPARE CONTACT		
J41-B*			SPARE CONTACT	24	199
J41-C*	TB7-3C	A 648R	SHAFT CDU 1/2X SIN HI	24	201
J41-D*	TB7-4C	A 648L	SHAFT CDU 1/2X SIN LO	24	446
J41-E*	J37-J*	A 578L	SHAFT CDU 1X SIN LO	24	445
J41-F*	J37-I*	A 578R	SHAFT CDU 1X SIN HI	24	448
J41-G*	J37-M*	A 579R	SHAFT CDU 1X COS HI	24	447
J41-H*	J37-K*	A 579L	SHAFT CDU 1X COS LO	24	204
J41-I*	TB13-5D	A 649L	SHAFT CDU 1/2X COS HI	24	202
J41-J*	TB13-4D	A 649R	SHAFT CDU 1/2X COS LO	24	203
J41-K*	J23-N	A 337R	WIRED SPARE	24	205
J41-M*	J23-P	A 337L	WIRED SPARE	24	224
J41-N*	TB7-5C	A 650R	TRUNNION CDU 1/4X COS HI		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				
J43-J•	K20-14	A 675R	800 CPS 1 PERCENT OPTICS HI	22	198
J43-K•	K20-8	A 675L	800 CPS 1 PERCENT OPTICS LO	22	200
J43-M•	J2-V•	A 35W	IMU TEMP ALARM AMP PIN 5 (27 VDC LO DURING G AND N IN)	24	125
J43-N•	J2-W•	A 36W	IMU TEMP ALARM AMP PIN 15 (27 VDC LO IN EMER MODE)	24	126
J43-P•	J2-X•	A 37W	EMERG HTR CONT. MODE LO (EMER MODE COMMAND LO G AND N)	24	127
J43-Q•	J2-Q•	A 30W	IMU HTR CURR AMP PIN 5 (27 VDC DURING G AND N IN)	24	120
J43-R•	J42-A•	A 655R	WIRED SPARE	24	475
J43-S•	J42-B•	A 655L	WIRED SPARE	24	476
J43-T•	J42-C•	A 656R	WIRED SPARE	24	477
J43-U•	J42-D•	A 656L	WIRED SPARE	24	479
J43-V•	P6-A	A 676	ZERO OPTICS FROM COMPUTER	20	500
J43-W•	J2-U•	A 34	0 VDC IMU (27 VDC LO DURING G AND N EMER MODE)	20	124
J43-X•	J4-X•	A 77R	ROLL ATT IMP CONTR OUTPUT RT	24	467
J43-Y•	J4-Y•	A 77L	ROLL ATT IMP CONTR OUTPUT LFT	24	468
J43-Z•	J4-Z•	A 77Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	469
J43-AA			SPARE CONTACT		
J43-BB			SPARE CONTACT		
J43-CC	J4-FF	A 79R	YAW ATT IMP CONTR OUTPUT RT	24	463
J43-DD	J4-EE	A 79L	YAW ATT IMP CONTR OUTPUT LEFT	24	462
J43-EE	J4-GG	A 79Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	464
J43-FF	J4-BB	A 78R	PITCH ATT IMP CONTR OUTPUT UP	24	459
J43-GG	J4-CC	A 78L	PITCH ATT IMP CONTR OUTPUT DN	24	460
J43-HH	J4-DD	A 78Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	461
J43-JJ			SPARE CONTACT		
J43-KK			SPARE CONTACT		
J43-LL			SPARE CONTACT		
J43-MM			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				
J43-NN			SPARE CONTACT		
J43-PP			SPARE CONTACT		
	J44	55 PIN CONNECTOR MS 3127E22-55SW (1897054-551)			
J44-A			SPARE CONTACT		
J44-B	TB17-8C	A 677	CONDITION LAMP TEST 28 VDC	24	315
J44-C	K30-14	A 678W	AT RESOLVED TRACKER HI (G AND N)	24	431
J44-D	K19-14	A 679R	AS RESOLVED TRACKER HI (G AND N)	24	427
J44-E	K19-11	A 679L	AS RESOLVED TRACKER LO (G AND N)	24	428
J44-F	K19-8	A 680R	AS DIRECT CONTROL HI (G AND N)	24	425
J44-G	K19-5	A 680L	AS DIRECT CONTROL LO (G AND N)	24	426
J44-H	K30-8	A 681R	AT DIRECT CONTROL HI (G AND N)	24	429
J44-J	K30-5	A 681L	AT DIRECT CONTROL LO (G AND N)	24	430
J44-K	K20-7	A 682	COSECANT RELAY COMMAND (FROM GNIC)	24	470
J44-L			SPARE CONTACT		
J44-M			SPARE CONTACT		
J44-N			SPARE CONTACT		
J44-P			SPARE CONTACT		
J44-R	P6-B•	A1154	SPACECRAFT ZERO VDC	20	511
J44-S	P2-C	A 686	ATTITUDE DISABLE SIGNAL (28 VDC TO NAA)	24	513
J44-T	J41-U•	A 651	WIRED SPARE	24	472
J44-U	P2-B	A 687	SXT POWER TO COMPUTER	24	515
J44-V	J24-D	A 350W	800 CPS 28 V 5 PERCENT HI OPTICS SWITCHED	20	222
J44-W	J41-V•	A 652	ZERO DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	473
J44-X	J41-W•	A 653	25 DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	474
J44-Y	P6-E	A 689	M AND DV SLEW CONTROL	24	516
J44-Z	P2-P	A 690	STEP UP C	24	517
J44-A•	E66B	A 691	CABLE W58 SHIELD GROUND	20	3
J44-B•	P2-D	A 692	26 VOLTS 400 CPS SLEW	24	503

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J44	55 PIN CONNECTOR MS 3127E22-55SW (1897054-551)				
J44-C•	P2-X	A 693	STEP DOWN C	24	504
J44-D•	P2-S	A 694	26 VOLTS 400 CPS MOTOR EXCITATION	20	505
J44-E•	P2-F	A 695	28 VDC HI	20	507
J44-F•	J25-D	A 377W	IRIG ZERO RESISTANCE	24	249
J44-G•	J25-E	A 378W	ACCEL ZERO RESISTANCE	24	251
J44-H•	J2-T•	A 33W	ACCEL IND SENSOR HI	24	123
J44-I•	J25-F	A 379W	ACCEL GAIN RESISTANCE	24	253
J44-J•	J26-W	A 402W	IRIG TEMP GAIN SWITCH N.C.	24	298
J44-K•	J25-G	A 380W	IRIG GAIN RESISTANCE	24	255
J44-M•	P2-L	A 696	6 VOLTS 400 CPS (TO M AND DV)	20	508
J44-N•	P2-A•	A 697	MARK BUTTON N.O. TO COMPUTER	24	509
J44-P•	P2-Z	A 698	MARK BUTTON N.C. TO COMPUTER	24	510
J44-Q•			SPARE CONTACT		
J44-R•	P2-N	A 699	M AND DV INTENSITY HI	24	512
J44-S•	P2-M	A 700	M AND DV INTENSITY LO	24	514
J44-T•	J2-N•	A 28W	IMU TEMP CONT K2 PIN 5 (AUTO OVRD, PROP AND BACKUP MODE CMND HI)	24	118
J44-U•	J2-P•	A 29W	IMU TEMP CONT AMP PIN 5 (PROP MODE CMND HI)	24	119
J44-V•	J2-Y•	A 38W	IMU TEMP CONT K1 PIN 3 (AUTO OVRD AND EMER MODE COMMAND HI)	24	128
J44-W•	J2-Z•	A 39W	IMU TEMP CONT K2 PIN 6 (AUTO OVRD AND EMER MODE CMND LO G AND N)	24	129
J44-X•	J2-AA	A 40W	IMU TEMP ALARM AMP PIN 14 (27 VDC HI DURING G AND N IN)	24	104
J44-Y•	J2-BB	A 41W	IMU TEMP ALARM BIAS RES (AUTO OVRD AND PROP MODE CMND LO)	24	106
J44-Z•			SPARE CONTACT	24	11
J44-AA	K27-1	A 701W	TRUNNION DEAD ZONE IN	24	10
J44-BB	K28-1	A 702W	SHAFT DEAD ZONE IN	20	471
J44-CC	K20-1	A 703	ZERO OPTICS RELAY COMMAND (FROM GNIC)	20	506
J44-DD	P2-A	A 704	ZERO OPTICS TO COMPUTER		
J44-EE			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J44	55 PIN CONNECTOR MS 3127E22-55SW (1897054-551)				
J44-FF			SPARE CONTACT		
J44-GG			SPARE CONTACT		
J44-HH			SPARE CONTACT		
	J45	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)			
J45-A			SPARE CONTACT		
J45-B	E67B	A 705	CABLE W54 SHIELD GROUND	20	3
J45-C			SPARE CONTACT		
J45-D			SPARE CONTACT		
J45-E			SPARE CONTACT		
J45-F			SPARE CONTACT		
J45-G			SPARE CONTACT		
J45-H			SPARE CONTACT		
J45-J			SPARE CONTACT		
J45-K			SPARE CONTACT		
J45-L			SPARE CONTACT		
J45-M			SPARE CONTACT		
J45-N			SPARE CONTACT		
J45-P			SPARE CONTACT		
J45-R			SPARE CONTACT		
J45-S			SPARE CONTACT		
J45-T			SPARE CONTACT		
J45-U			SPARE CONTACT		
J45-V			SPARE CONTACT		
J45-W			SPARE CONTACT		
J45-X			SPARE CONTACT		
J45-Y			SPARE CONTACT		
J45-Z			SPARE CONTACT		
J45-A•			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J45	55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J45-B•			SPARE CONTACT		
J45-C•			SPARE CONTACT		
J45-D•			SPARE CONTACT		
J45-E•			SPARE CONTACT		
J45-F•			SPARE CONTACT		
J45-G•			SPARE CONTACT		
J45-H•	E87B	A 706	AGC COMMON	20	7
J45-I•			SPARE CONTACT		
J45-J•	J8-FF	A 185	MODE RELAY COMMON	24	520
J45-K•			SPARE CONTACT		
J45-M•			SPARE CONTACT		
J45-N•	E87B	A 707	0 VDC AGC	20	7
J45-P•	J27-CC	A 442	COARSE ALIGN RELAY CONTROL	24	305
J45-Q•	J27-DD	A 443	ENTRY RELAY CONTROL	24	306
J45-R•	J27-EE	A 444	ZERO ENCODER RELAY CONTROL	24	307
J45-S•	TB13-12A	A 708	+28 VDC IMU	20	90
J45-T•			SPARE CONTACT		
J45-U•			SPARE CONTACT		
J45-V•			SPARE CONTACT		
J45-W•	TB17-5B	A 709R	OG CDU 1X ERROR SIG (HI)	24	278
J45-X•	TB17-6B	A 709L	OG CDU ERROR SIG RET	24	280
J45-Y•	TB11-5E	A 710L	28 VOLT RMS 800 CPS 1 PERCENT LO	24	269
J45-Z•	TB11-3E	A 710R	28 VOLT RMS 800 CPS 1 PERCENT HI	24	268
J45-AA			SPARE CONTACT		
J45-BB	TB17-1B	A 711R	IG CDU 1X ERROR SIG (HI)	24	290
J45-CC	TB17-2B	A 711L	IG CDU ERROR SIG RET	24	291
J45-DD	TB17-3B	A 712R	INPUT YAW (MG CDU 1X ERROR) HI	24	299
J45-EE	TB17-4B	A 712L	ATTITUDE ERROR (MG CDU 1X ERROR) LO	24	300
J45-FF	J8-M	A 191W	ATTITUDE CONTR MODE IND TO AGC	24	518
J45-GG	TB12-20	A 713	+28 VDC MDV	20	519
J45-HH			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	J46	31 PIN CONNECTOR MS 3102A36-9SW (1896854-091)			
J46-A	J7-E•	A 130	+28 VDC STBY BUS B	20	322
J46-A	J27-X	A1177	+28 VDC STBY BUS B	20	322
J46-B			SPARE CONTACT		
J46-C	J7-F•	A 131	+28 VDC IMU BUS B	20	325
J46-C	J27-Z	A1179	+28 VDC IMU BUS B	20	325
J46-D	TB5-3	A 714	+28 VDC STBY BUS B	16	134
J46-E	TB16-9	A 715	0 VDC IMU	16	7
J46-F			SPARE CONTACT		
J46-G	J7-HH	A 152	+28 VDC OPTICS BUS B	20	352
J46-G	J30-F	A1185	+28 VDC OPTICS BUS B	20	352
J46-H			SPARE CONTACT		
J46-I	TB2-5	A 716	+28 VDC IMU BUS B	12	131
J46-J	TB2-4	A 717	+28 VDC IMU BUS B	12	131
J46-K	TB3-5	A 718	+28 VDC OPTICS BUS B	14	351
J46-L	TB3-4	A 719	+28 VDC OPTICS BUS B	14	351
J46-M	TB4-5	A 720	+28 VDC AGC BUS B	14	137
J46-N	TB4-4	A 721	+28 VDC AGC BUS B	14	137
J46-O			SPARE CONTACT		
J46-P			SPARE CONTACT		
J46-R			SPARE CONTACT		
J46-S	TB16-12	A 722	0 VDC IMU	12	7
J46-T	TB16-14	A 723	0 VDC IMU	12	7
J46-U	TB14-12	A 724	0 VDC OPTICS	12	7
J46-V	TB10-6	A 725	0 VDC AGC	12	7
J46-W			SPARE CONTACT		
J46-X			SPARE CONTACT		
J46-Y			SPARE CONTACT		
J46-Z			SPARE CONTACT		
J46-A•			SPARE CONTACT		
J46-B•			SPARE CONTACT		
J46-C•			SPARE CONTACT		
J46-D•			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J46	31 PIN CONNECTOR MS 3102A36-9SW (1896854-091)				
J46-E•			SPARE CONTACT		
J46-F•	J7-G•	A 132	+28 VDC AGC BUS B	20	321
J46-F•	J27-W•	A1182	+28 VDC AGC BUS B	20	321
	J47	19 PIN CONNECTOR MS3127E14-19S (1897116-190)			
J47-A			SPARE CONTACT		
J47-B			SPARE CONTACT		
J47-C	P2-C•	A1168	TRACKER ON IND TO AGC	20	521
J47-D	J1-T	A1170	OPTICS ZERO ENCODER INDICATION	20	16
J47-E	P3-A	A1169	OPTICS MODE SWITCH IND TO AGC	20	522
J47-F	K4-6	A1166	AGC COMMON	20	523
J47-G	J10-A•	A1192	GIMBAL LOCK LIGHT HI	20	27
J47-H			SPARE CONTACT		
J47-J	TB6-6E	A1191	400 CPS SHIELD GROUND BUS	20	7
J47-K	R2-1	A1194	400 CPS LO BUS	20	360
J47-L	TB6-6F	A1195	400 CPS LO BUS	20	7
J47-M			SPARE CONTACT		
J47-N			SPARE CONTACT		
J47-P	J1-W	A1171	MARK	20	22
J47-R	J1-X	A1172	NOT MARK	20	23
J47-S			SPARE CONTACT		
J47-T			SPARE CONTACT		
J47-U			SPARE CONTACT		
J47-V			SPARE CONTACT		
	K1	RELAY (1016031-1)			

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K1	RELAY (1016031-1)				
K1-A01	TB2-1	A 726	ISS OPERATE POWER LINE B HI	12	131
K1-A02	K2-A01	A 727	28 VDC BUS A - BUS B SELECT	12	130
K1-A02	K1-B02	AA 1	28 VDC BUS A - BUS B SELECT	12	130
K1-B01	TB2-6	A 728	ISS OPERATE POWER LINE A HI	12	130
K1-B02	K1-A02	AA 1	28 VDC BUS A - BUS B SELECT	12	130
K1-X01	J7-Y•	A 143	AGE POWER TRANSFER B	20	533
K1-X01	K6-4	A 729	AGE POWER TRANSFER LINE B	20	533
K1-X02	J7-Z•	A 144	AGE POWER TRANSFER LO	20	534
K1-X02	K6-11	A 730	AGE POWER TRANSFER LO	20	534
	K2	RELAY (MS24140-D2)			
K2-11	J7-EE	A 149	27 VDC HI ISS OPERATE IND	20	528
K2-12	TB7-12F	A1097	27 VDC RELAY AND LAMP POWER HI	20	525
K2-13			SPARE N.C. CONTACT		
K2-14			SPARE N.C. CONTACT		
K2-A01	K1-A02	A 727	28 VDC BUS A - BUS B SELECT	12	130
K2-A02	XF2-1	A 731	AGE 28 VDC VARIABLE POWER HI	12	524
K2-X01	J7-FF	A 150	27 VDC HI ISS OPERATE	20	529
K2-X01	TB1-4	A 732	AGE 28 VDC VARIABLE POWER HI	20	529
K2-X02	TB6-7D	A 733	RELAY AND LAMP POWER LO	20	355
	K3	RELAY (1015914-001)			
K3-1			SPARE N.C. CONTACT		524
K3-2	K6-5	A 734	28 VDC STANDBY POWER LINE A - LINE B SELECT	16	133
K3-3	XF1-1	A 735	AGE 28 VDC VARIABLE POWER HI	16	524
K3-4	J7-DD	A 148	27 VDC HI ISS STANDBY	24	527

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K3	RELAY (1015914-001)				
K3-4	K3-5	AA 3	ISS STANDBY ON CONTROL	20	527
K3-5	TB1-6	A 736	ISS STANDBY ON CONTROL	20	527
K3-5	K3-4	AA 3	ISS STANDBY ON CONTROL	20	527
K3-6	J7-CC	A 147	ISS STANDBY ON IND	24	526
K3-7			SPARE N.C. CONTACT		527
K3-8	K4-9	A1114	OPTICS POWER 28 VDC RETURN	20	495
K3-9	E878	A 658	IMU POWER 28 VDC RETURN (0 VDC)	20	7
K3-10	J43-F	A1113	IMU POWER 28 VDC RETURN (0 VDC)	20	495
K3-11	TB6-7E	A 737	RELAY AND LAMP POWER LO	20	355
K3-12			SPARE WIPER CONTACT		
K3-13			SPARE N.O. CONTACT		
K3-14			SPARE N.C. CONTACT		
K4	RELAY (1015914-001)				
K4-1			SPARE N.C. CONTACT		524
K4-2	E15	A 738	OPTICS 28 VDC HI	16	1
K4-3	XF3-1	A 740	AGE 28 VDC VARIABLE POWER HI	16	524
K4-4	J7-W*	A 141	27 VDC HI OPTICS	24	532
K4-4	K4-5	AA 4	OPTICS POWER ON CONTROL	24	532
K4-5	TB1-8	A 741	OPTICS POWER ON CONTROL	24	532
K4-5	K4-4	AA 4	OPTICS POWER ON CONTROL	24	532
K4-6	J7-V*	A 140	OPTICS POWER ON LAMP	24	523
K4-6	J47-F	A1166	AGC COMMON	20	523
K4-7			SPARE N.C. CONTACT		532
K4-8			SPARE N.C. CONTACT		7
K4-9	K3-8	A1114	OPTICS POWER 28 VDC RETURN	20	495
K4-10	TB14-14	A1115	OPTICS POWER 28 VDC RETURN	20	7
K4-11	TB6-8A	A 742	RELAY AND LAMP POWER LO	20	355
K4-12			SPARE WIPER CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K4	RELAY (1015914-001)				
K4-13			SPARE N.O. CONTACT		
K4-14			SPARE N.C. CONTACT		
K5	RELAY (1015914-001)				
K5-1			SPARE N.C. CONTACT		524
K5-2	K6-12	A 743	28 VDC AGE VARIABLE POWER HI	16	132
K5-3	XF4-1	A 744	AGE 28 VDC VARIABLE POWER HI	16	524
K5-4	J7-S*	A 138	27 VDC HI AGC	24	531
K5-4	K5-5	AA 5	AGC POWER ON CONTROL	24	531
K5-5	TB1-10	A 745	AGC POWER ON CONTROL	24	531
K5-5	K5-4	AA 5	AGC POWER ON CONTROL	24	531
K5-6	J7-R*	A 137	AGC POWER ON LAMP	24	530
K5-7			SPARE N.C. CONTACT		531
K5-8			SPARE N.C. CONTACT		
K5-9			SPARE N.O. CONTACT		
K5-10			SPARE WIPER CONTACT		
K5-11	TB6-8B	A 746	RELAY AND LAMP POWER LO	20	355
K5-12			SPARE WIPER CONTACT		
K5-13			SPARE N.O. CONTACT		
K5-14			SPARE N.C. CONTACT		
K6	RELAY (1015914-001)				
K6-1	J7-X*	A 142	AGE POWER TRANSFER A	20	525
K6-2	K6-4	AA 6	AGE POWER TRANSFER LINE B	20	533
K6-3	TB7-12E	A 747	27 VDC RELAY AND LAMP POWER HI	20	525
K6-4	K1-X01	A 729	AGE POWER TRANSFER LINE B	20	533

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K6	RELAY (1015914-001)				
K6-4	TB1-20	A 748	AGE POWER TRANSFER LINE B	20	533
K6-4	K6-2	AA 6	AGE POWER TRANSFER LINE B	20	533
K6-5	K3-2	A 734	28 VDC STANDBY POWER LINE A - LINE B SELECT	16	133
K6-6	TB5-1	A 749	28 VDC STANDBY BUS B	16	134
K6-7	TB5-6	A 750	28 VDC STANDBY BUS A	16	133
K6-8	TB3-6	A 751	OPTICS POWER LINE A HI	16	1
K6-9	TB3-1	A 752	OPTICS POWER LINE B HI	16	351
K6-10	E15	A1048	OPTICS 28 VDC HI	16	1
K6-11	K1-X02	A 730	AGE POWER TRANSFER LO	20	534
K6-11	TB1-19	A 753	AGE POWER TRANSFER LO	20	534
K6-12	K5-2	A 743	28 VDC AGE VARIABLE POWER HI	16	132
K6-13	TB4-1	A 754	28 VDC AGC LINE B POWER HI	16	137
K6-14	TB4-6	A 755	28 VDC AGC LINE A POWER HI	16	132
K7	RELAY (1015837-001)				
K7-1	P2-D*	A 960	K 7 CONTROL 28 VDC HI	24	607
K7-2	TB7-20F	A 756	27 VDC RELAY AND LAMP POWER LO	20	355
K7-3	J8-V*	A 176	CONTINUITY IND	24	551
K7-4	K25-4	A 757	CONT TEST ENABLE (28 VDC)	20	550
K7-5	J8-U*	A 175	CONTINUITY TEST PROCEED LIGHT	24	550
K7-6			SPARE N.O. CONTACT		
K7-7	P1-A	A 950	PROCEED VOLTAGE	20	555
K7-8	J9-JJ	A 226	CONTINUITY TEST PROCEED VOLTAGE	24	555
K7-9			SPARE N.O. CONTACT		
K7-10			SPARE WIPER CONTACT		
K7-11			SPARE N.C. CONTACT		
K7-12			SPARE N.O. CONTACT		
K7-13			SPARE WIPER CONTACT		
K7-14			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K7	RELAY (1015837-001)				
K7-15			SPARE N.O. CONTACT		
K7-16			SPARE WIPER CONTACT		
K7-17			SPARE N.C. CONTACT		
K7-18			SPARE N.O. CONTACT		
K7-19			SPARE WIPER CONTACT		
K7-20			SPARE N.C. CONTACT		
K8	RELAY (1015914-001)				
K8-1	J25-D*	A 390	28 VDC FOR M AND DV	20	250
K8-1	J34-Y	A1167	+28 VDC MDV	20	250
K8-2	P4-D*	A 962	28 VDC HI, M AND DV	24	609
K8-3	J43-C*	A 670	M AND DV AND INTEGRAL LIGHTING PWR 28 VDC HI	20	250
K8-4	TB1-2	A 758	CONT TEST ENABLE (28 VDC)	20	550
K8-4	P10-D*	A 967	CONT TEST ENABLE (28 VDC)	24	550
K8-5			SPARE WIPER CONTACT		
K8-6			SPARE N.O. CONTACT		
K8-7			SPARE N.C. CONTACT		
K8-8	TB6-6B	A 760	5.5 V AT 6.75 AMP 400 CPS LO	24	7
K8-8	TB17-12C	A1155W	5.5 V AT 6.75 AMP 400 CPS LO	20	7
K8-9			SPARE N.O. CONTACT		
K8-10	J43-U	A1133W	6 VOLT 400 CPS LO	20	7
K8-11	TB6-7C	A 762	RELAY AND LAMP POWER LO	20	355
K8-12	J43-S	A 662W	6 VOLT 400 CPS LO	22	499
K8-13	P6-N	A 963	6 VOLT 400 CPS HI	24	608
K8-14			SPARE N.C. CONTACT		499

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
K10	STEPPER SWITCH 52 POSITION (1016014-001) SEE P1 THRU P11 (MATING CONNECTORS)				
K17	RELAY (1015914-00)				
K17-1			SPARE N.C. CONTACT		572
K17-2	TB7-12D	A 763	27VDC RELAY AND LAMP POWER HI	20	525
K17-3	K18-4	A 764	K18 COIL (K403 MECH)	20	572
K17-3	K29-4	A 772	K29 COIL (K404 MECH)	20	572
K17-4	TB11-20B	A 739	OPTICS 28 VDC HI	20	1
K17-4	TB12-40	A 765	OPTICS 28VDC HI	20	1
K17-5			SPARE WIPER CONTACT		
K17-6			SPARE N.O. CONTACT		
K17-7			SPARE N.C. CONTACT		
K17-8			SPARE N.C. CONTACT		
K17-9			SPARE N.O. CONTACT		
K17-10			SPARE WIPER CONTACT		
K17-11	TB12-39	A 766	COSECANT RELAY COMMAND (TO PSA)	20	8
K17-11	TB12-22	A 777	SIMULATED COSECANT RELAY LO	20	8
K17-12			SPARE WIPER CONTACT		
K17-13			SPARE N.O. CONTACT		
K17-14			SPARE N.C. CONTACT		
K18	RELAY (1015914-001)				
K18-1	J1-U*	A 7L	800 CPS VAR OPTICS TEST VOLTAGE LO	24	19
K18-1	K18-9.	AA150	SIMULATED INPUT LO	24	19
K18-2			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K18	RELAY (1015914-001)				
K18-3	K19-3	A 769L	SIMULATED INPUT LO	20	19
K18-3	K18-6	AA151	SIMULATED INPUT LO	24	19
K18-4	K17-3	A 764	K18 COIL HI (K403 MECH)	20	572
K18-4	TB12-4	A 770	K18 COIL HI (K403 MECH)	20	572
K18-5	K19-6	A 769R	SIMULATED INPUT HI	20	17
K18-6	K18-3	AA151	SIMULATED INPUT LO	24	19
K18-7	J1-T*	A 7R	800 CPS VAR OPTICS TEST VOLTAGE HI	24	17
K18-7	K18-13	AA152	SIMULATED INPUT HI	24	17
K18-8	K19-12	A 767L	AS REQUIRED INPUT (RSVR AMP PSA)	20	573
K18-8	K18-12	AA153	AS REQUIRED INPUT (RSVR AMP PSA)	24	573
K18-9	K29-9	A 768L	AT REQUIRED INPUT (RSVR AMP PSA)	20	19
K18-9	K18-1	AA150	AT REQUIRED INPUT (RSVR AMP PSA)	24	19
K18-10	K19-9	A 767R	AS REQUIRED INPUT (RSVR AMP PSA)	20	573
K18-11	TB7-13C	A 771	27V DC RELAY AND LAMP POWER LO	20	355
K18-12	K18-8	AA153	AS RESOLVED INPUT (RSVR AMP PSA)	24	573
K18-13	K29-13	A 768R	AT RESOLVED INPUT (RSVR AMP PSA)	20	17
K18-13	K18-7	AA152	SIMULATED INPUT HI	24	17
K18-14			SPARE N.C. CONTACT		573
K19	RELAY (1015837-001)				
K19-1	J1-S*	A 6	SHAFT LOOP TEST CONTROL	20	15
K19-2	K30-2	A 774	27V DC RELAY AND LAMP POWER LO	20	355
K19-2	TB7-13D	A 775	27V DC RELAY AND LAMP POWER LO	20	355
K19-3	K18-3	A 769L	SIMULATED INPUT LO	20	19
K19-4	K30-15	A1147L	AS DIRECT INPUT LO (PRE-AMP PSA)	20	426
K19-5	J44-G	A 680L	AS DIRECT CONTROL LO (G. AND N.)	24	426
K19-6	K18-5	A 769R	SIMULATED INPUT HI	20	17
K19-7	K30-17	A1147R	AS DIRECT INPUT HI (PRE AMP PSA)	20	425
K19-8	J44-F	A 680R	AS DIRECT CONTROL HI (G. AND N.)	24	425

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K19	RELAY (1015837-001)				
K19-9	K18-10	A 767R	AS RESOLVED INPUT (RSVR AMP PSA)	20	573
K19-10	K30-18	A1146L	AS RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K19-11	J44-E	A 679L	AS RESOLVED TRACKER LO (G. AND N.)	24	428
K19-11	K30-11	A 773	AS RESOLVED TRACKER LO (G. AND N.)	20	428
K19-12	K18-8	A 767L	AS RESOLVED INPUT (RSVR AMP PSA)	20	573
K19-13	K30-20	A1146R	AS RESOLVED INPUT HI (RSVR AMP PSA)	20	427
K19-14	J44-D	A 679R	AS RESOLVED TRACKER HI (G. AND N.)	24	427
K19-15	J36-J*	A 564L	AT DIRECT INPUT LO (PRE-AMP PSA)	24	430
K19-15	K30-4	A1145L	AT DIRECT INPUT LO (PRE-AMP PSA)	20	430
K19-16	J36-I*	A 564R	AT DIRECT INPUT HI (PRE-AMP PSA)	24	429
K19-17	K30-7	A1145R	AT DIRECT INPUT HI (PRE-AMP PSA)	20	429
K19-18	J36-M*	A 565L	AT RESOLVED INPUT LO (RSVR AMP PSA)	24	428
K19-18	K30-10	A1148L	AT RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K19-19	J36-K*	A 565R	AT RESOLVED INPUT HI (RSVR AMP PSA)	24	431
K19-20	K30-13	A1148R	AT RESOLVED INPUT HI (RSVR AMP PSA)	20	431
K20	RELAY (1015914-001)				
K20-1	J44-CC	A 703	ZERO OPTICS RELAY COMMAND (FROM GNIC)	20	471
K20-2	J1-BB	A 12	OPT TEST ZEROING RELAY LO	24	9
K20-3	J41-R	A 647	ZERO OPTICS RELAY COMMAND (TO PSA)	24	471
K20-4	TB12-8	A 776	K20 COIL (K407 MECH)	20	24
K20-5	J41-P	A 646	COSECANT RELAY COMMAND (TO PSA)	20	470
K20-6	TB12-21	A1150	SIMULATED COSECANT RELAY LO	20	574
K20-7	J44-K	A 682	COSECANT RELAY COMMAND (FROM GNIC)	24	470
K20-8	J43-K*	A 675L	800 CPS 1 PERCENT OPTICS LO	22	200
K20-9	J1-Z*	A 10L	VAR. VOLTAGE CONTR INPUT LO	24	26
K20-10	TB13-18E	A 810L	28 V 800 CPS 1 PERCENT OPTICS LO	22	200
K20-11	TB7-13E	A 779	27 VDC RELAY AND LAMP POWER LO	20	355
K20-12	TB13-17E	A 810R	28 V 800 CPS 1 PERCENT OPTICS HI	22	198

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K20	RELAY (1015914-001)				
K20-13	J1-Y*	A 10R	VAR. VOLTAGE CONTR INPUT HI	24	25
K20-14	J43-J*	A 675R	800 CPS 1 PERCENT OPTICS HI	22	198
K22	RELAY (1015837-001)				
K22-1	J9-H*	A 202	PIPA LOOPS INHIBIT COMMAND	20	553
K22-2	TB7-20D	A 784	27 VDC RELAY AND LAMP POWER LO	20	355
K22-2	K22-4	AA 7	27 VDC RELAY AND LAMP POWER LO	24	355
K22-3	J9-G*	A 201	PIPA LOOPS INHIBIT IND	20	552
K22-4	K22-2	AA 7	27 VDC RELAY AND LAMP POWER LO	24	355
K22-5			SPARE N.C. CONTACT		355
K22-6			SPARE N.O. CONTACT		
K22-7	J25-PP	A 396	28 VDC HI	20	267
K22-8	J27-PP	A 450	28 VDC FOR PIPA POWER SUPPLIES	20	267
K22-9			SPARE N.O. CONTACT		
K22-10			SPARE WIPER CONTACT		
K22-11			SPARE N.C. CONTACT		
K22-12			SPARE N.O. CONTACT		
K22-13			SPARE WIPER CONTACT		
K22-14			SPARE N.C. CONTACT		
K22-15			SPARE N.O. CONTACT		
K22-16			SPARE WIPER CONTACT		
K22-17			SPARE N.C. CONTACT		
K22-18			SPARE N.O. CONTACT		
K22-19			SPARE WIPER CONTACT		
K22-20			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K25 RELAY (1015837-001)				
K25-1	P1-V	A 956	K10 STEP. SW. OFF-NORM. CONT., HOME POS.	24	575
K25-1	K25-3	AA 10	K10 STEP. SW. OFF-NORM. CONT., HOME POS.	24	575
K25-2	TB7-15D	A 789	27 VDC RELAY AND LAMP POWER LO	20	355
K25-3	K25-1	AA 10	K10 STEP. SW. OFF-NORM CONT., HOME POS.	24	575
K25-4	K7-4	A 757	CONT. TEST ENABLE (28 VDC)	20	550
K25-4	P1-U	A 954	CONT. TEST ENABLE (28 VDC TO OFF-NORM CONT)	24	550
K25-5			SPARE N.C. CONTACT		
K25-6			SPARE N.O. CONTACT		
K25-7	P1-W	A 957	K10 STEP. SW OFF-NORM CONT. (NOT HOME POS)	24	576
K25-8	P1-C	A 952	K10 STEP. SW INTERUPTER CONTACT	24	577
K25-9			SPARE N.O. CONTACT		
K25-10			SPARE WIPER CONTACT		
K25-11			SPARE N.C. CONTACT		
K25-12			SPARE N.O. CONTACT		
K25-13			SPARE WIPER CONTACT		
K25-14			SPARE N.C. CONTACT		
K25-15			SPARE N.O. CONTACT		
K25-16			SPARE WIPER CONTACT		
K25-17			SPARE N.C. CONTACT		
K25-18			SPARE N.O. CONTACT		
K25-19			SPARE WIPER CONTACT		
K25-20			SPARE N.C. CONTACT		
	K26 RELAY (1015914-001)				
K26-1	TB12-8	A1160	K20 COIL (K407 MECH) CONTROL	20	24
K26-2			SPARE N.O. CONTACT		
K26-3	J1-X*	A1161	OPTICS TEST COMMAND	20	24
K26-4	TB12-16	A1164	SCT MDA DISABLE HI	20	18
K26-5	TB6-16B	A1159	OPTICS +28 VDC	20	187

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K26	RELAY (1015914-001)				
K26-6			SPARE N.O. CONTACT		
K26-7	TB6-11B	A1158	SCT MOTOR CONTROL CT (+28 VDC)	20	187
K26-8			SPARE N.C. CONTACT		578
K26-9			SPARE N.O. CONTACT		
K26-10			SPARE WIPER CONTACT		578
K26-11	TB12-15	A1165	SCT MDA DISABLE LO	20	20
K26-12			SPARE WIPER CONTACT		579
K26-13			SPARE N.O. CONTACT		
K26-14			SPARE N.C. CONTACT		579
	K27 RELAY (1015914-001)				
K27-1	J44-AA	A 701W	TRUNNION DEAD ZONE IN	24	11
K27-2	K28-2	A 790	OPTICS 28 VDC HI	20	1
K27-3	J1-DD	A 14W	+28 VDC OPTICS SWITCHED	22	11
K27-3	J31-MM	A1141	TRUNNION CDU MOTOR CONTROL WINDING C.T.	20	11
K27-4	TB12-12	A 791	K27 COIL (K406 MECH)	20	13
K27-4	K27-5	AA158	27 VDC HI	24	13
K27-5	K27-4	AA158	27 VDC HI	24	13
K27-6	J1-P	A1144	OPTICS TEST LATCH VOLTAGE	20	14
K27-6	K28-6	A1151	27 VDC HI (TRUNNION TEST)	20	14
K27-7			SPARE N.C. CONTACT		13
K27-8			SPARE N.C. CONTACT		
K27-9			SPARE N.O. CONTACT		
K27-10			SPARE WIPER CONTACT		
K27-11	TB7-14B	A 792	27 VDC RELAY AND LAMP POWER LO	20	355
K27-12			SPARE WIPER CONTACT		
K27-13			SPARE N.O. CONTACT		
K27-14			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K28 RELAY (1015914-001)				
K28-1	J44-BB	A 702W	SHAFT DEAD ZONE IN	24	10
K28-2	K27-2	A 790	OPTICS 28 VDC HI	20	1
K28-2	TB11-20A	A 793	OPTICS 28 VDC HI	20	1
K28-3	J1-CC	A 13W	+28 VDC OPTICS SWITCHED	22	10
K28-3	J37-JJ	A1140	SHAFT CDU MOTOR CONTROL WINDING C.T.	20	10
K28-4	TB12-14	A 795	K28 COIL (K405 MECH)	20	12
K28-4	K28-5	AA159	27 VDC HI	24	12
K28-5	K28-4	AA159	27 VDC HI	24	12
K28-6	K27-6	A1151	27 VDC HI (SHAFT TEST)	20	14
K28-7			SPARE N.C. CONTACT		12
K28-8			SPARE N.C. CONTACT		
K28-9			SPARE N.O. CONTACT		
K28-10			SPARE WIPER CONTACT		
K28-11	TB7-14C	A 796	27 VDC RELAY AND LAMP POWER LO	20	355
K28-12			SPARE WIPER CONTACT		
K28-13			SPARE N.O. CONTACT		
K28-14			SPARE N.C. CONTACT		
	K29 RELAY (1015914-001)				
K29-1	K29-9	AA154	AT RESOLVED INPUT (RSVR AMP PSA)	24	19
K29-2			SPARE N.O. CONTACT		
K29-3	K30-3	A 798L	SIMULATED INPUT LO	22	19
K29-3	K29-6	AA155	SIMULATED INPUT LO	24	19
K29-4	K17-3	A 772	K29 COIL (K404 MECH)	20	572
K29-4	TB12-2	A 799	K29 COIL (K404 MECH)	20	572
K29-5	K30-6	A 798R	SIMULATED INPUT HI	22	17
K29-6	K29-3	AA155	SIMULATED INPUT LO	24	19
K29-7	K29-13	AA156	AT RESOLVED INPUT (RSVR AMP PSA)	24	17
K29-8	K29-12	AA157	AT RESOLVED INPUT	24	580

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K29	RELAY (1015914-001)				
K29-8	K30-12	A1149R	AT RESOLVED INPUT	20	580
K29-9	K18-9	A 768L	AT RESOLVED INPUT (RSVR AMP PSA)	20	19
K29-9	K29-1	AA154	AT RESOLVED INPUT (RSVR AMP PSA)	24	19
K29-10	K30-9	A1149L	AT RESOLVED INPUT	20	580
K29-11	TB7-13B	A 800	27 VDC RELAY AND LAMP POWER LO	20	355
K29-12	K29-8	AA157	AT RESOLVED INPUT	24	580
K29-13	K18-13	A 768R	AT RESOLVED INPUT (RSVR AMP PSA)	20	17
K29-13	K29-7	AA156	AT RESOLVED INPUT (RSVR AMP PSA)	24	17
K29-14			SPARE N.C. CONTACT		580
	K30 RELAY (1015837-001)				
K30-1	J1-V*	A 8	TRUNNION LOOP TEST CONTROL	20	21
K30-2	K19-2	A 774	27 VDC RELAY AND LAMP POWER LO	20	355
K30-3	K29-3	A 798L	SIMULATED INPUT LO	22	19
K30-4	K19-15	A1145L	AT DIRECT INPUT LO (PRE-AMP PSA)	20	430
K30-5	J44-J	A 681L	AT DIRECT CONTROL LO (G. AND N.)	24	430
K30-6	K29-5	A 798R	SIMULATED INPUT HI	22	17
K30-7	K19-17	A1145R	AT DIRECT INPUT HI (PRE-AMP PSA)	20	429
K30-8	J44-H	A 681R	AT DIRECT CONTROL HI (G. AND N.)	24	429
K30-9	K29-10	A1149L	AT RESOLVED INPUT	20	580
K30-10	K19-18	A1148L	AT RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K30-11	K19-11	A 773	AS RESOLVED TRACKER LO (G. AND N.)	20	428
K30-12	K29-8	A1149R	AT RESOLVED INPUT	20	580
K30-13	K19-20	A1148R	AT RESOLVED INPUT HI (RSVR AMP PSA)	20	431
K30-14	J44-C	A 678W	AT RESOLVED TRACKER HI (G. AND N.)	24	431
K30-15	J36-F*	A 562L	AS DIRECT INPUT LO (PRE-AMP PSA)	24	426
K30-15	K19-4	A1147L	AS DIRECT INPUT LO (PRE-AMP PSA)	20	426
K30-16	J36-E*	A 562R	AS DIRECT INPUT HI (PRE-AMP PSA)	24	425
K30-17	K19-7	A1147R	AS DIRECT INPUT HI (PRE-AMP PSA)	20	425

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K30	RELAY (1015837-001)				
K30-18	J36-H*	A 563L	AS RESOLVED INPUT LO (RSVR AMP PSA)	24	428
K30-18	K19-10	A1146L	AS RESOLVED INPUT LO (RSVR AMP PSA)	20	428
K30-19	J36-G*	A 563R	AS RESOLVED INPUT HI (RSVR AMP PSA)	24	427
K30-20	K19-13	A1146R	AS RESOLVED INPUT HI (RSVR AMP PSA)	20	427
	K38 RELAY (1015837-001)				
K38-1	K54-15	A 834	K38 COIL HI (K346 MECH)	20	581
K38-2	K54-2	A 835	27 VDC RELAY AND LAMP POWER LO	20	355
K38-3	K41-3	A 836R	MG ERROR SIGNAL HI	24	582
K38-4	J5-R	A 90R	Z GYRO ERROR SIG (HI)	24	155
K38-4	J22-JJ	A 328R	Z GYRO ERROR SIGNAL HI	24	155
K38-5			SPARE N.C. CONTACT		155
K38-6	K41-6	A 836L	Z GYRO ERROR SIGNAL LO	24	158
K38-6	K38-8	AA 12	Z GYRO ERROR SIGNAL LO	24	158
K38-7	J5-S	A 90L	IMU GIMBAL AND GYRO ERROR SIG LO	24	158
K38-7	J22-KK	A 328L	Z GYRO ERROR SIGNAL LO	24	158
K38-8	K38-6	AA 12	Z GYRO ERROR SIGNAL LO	24	158
K38-9	K55-3	A 838R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K38-10	J5-C	A 85R	X GYRO ERROR SIG HI	24	146
K38-10	J22-EE	A 326R	X GYRO ERROR SIGNAL HI	24	146
K38-11			SPARE N.C. CONTACT		146
K38-12	K55-6	A 838L	OUTER GIMBAL ERROR SIGNAL LO	24	148
K38-12	K38-14	AA 13	OUTER GIMBAL ERROR SIGNAL LO	24	148
K38-13	J5-D	A 85L	IMU GIMBAL AND GYRO ERROR SIG LO	24	148
K38-13	J22-FF	A 326L	X GYRO ERROR SIGNAL LO	24	148
K38-14	K38-12	AA 13	OUTER GIMBAL ERROR SIGNAL LO	24	148
K38-15			SPARE N.O. CONTACT		
K38-16			SPARE WIPER CONTACT		
K38-17			SPARE N.C. CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K38	RELAY (1015837-001)				
K38-18			SPARE N.O. CONTACT		
K38-19			SPARE WIPER CONTACT		
K38-20			SPARE N.C. CONTACT		
	K40 RELAY (1015837-001)				
K40-1	J9-K*	A 204	X-GYRO ERROR TO MG S A	20	556
K40-2	T87-19C	A 840	27 VDC RELAY AND LAMP POWER LO	20	355
K40-3	K55-3	A 841R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K40-4	K41-5	A 842R	X IRIG PA HI	24	160
K40-5	K54-9	A 843R	MG ERROR SIGNAL HI	24	160
K40-6	K55-6	A 841L	OUTER GIMBAL ERROR SIGNAL HI	24	148
K40-7	K41-8	A 842L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K40-8	K54-12	A 843L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K40-9			SPARE N.O. CONTACT		
K40-10			SPARE WIPER CONTACT		
K40-11			SPARE N.C. CONTACT		
K40-12			SPARE N.O. CONTACT		
K40-13			SPARE WIPER CONTACT		
K40-14			SPARE N.C. CONTACT		
K40-15			SPARE N.O. CONTACT		
K40-16			SPARE WIPER CONTACT		
K40-17			SPARE N.C. CONTACT		
K40-18			SPARE N.O. CONTACT		
K40-19			SPARE WIPER CONTACT		
K40-20			SPARE N.C. CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	K41 RELAY (1015837-001)				
K41-1	J9-M*	A 205	Z-GYRO ERROR TO MG S A	20	558
K41-2	T87-19B	A 844	27 VDC RELAY AND LAMP POWER LO	20	355
K41-3	K38-3	A 836R	MG ERROR SIGNAL HI	24	582
K41-4	K56-10	A 845R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
K41-5	K40-4	A 842R	X IRIG PA HI	24	160
K41-6	K38-6	A 836L	Z GYRO ERROR SIGNAL LO	24	158
K41-7	K56-7	A 845L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K41-8	K40-7	A 842L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K41-9			SPARE N.O. CONTACT		
K41-10			SPARE WIPER CONTACT		
K41-11			SPARE N.C. CONTACT		
K41-12			SPARE N.O. CONTACT		
K41-13			SPARE WIPER CONTACT		
K41-14			SPARE N.C. CONTACT		
K41-15			SPARE N.O. CONTACT		
K41-16			SPARE WIPER CONTACT		
K41-17			SPARE N.C. CONTACT		
K41-18			SPARE N.O. CONTACT		
K41-19			SPARE WIPER CONTACT		
K41-20			SPARE N.C. CONTACT		
	K42 RELAY (1015837-001)				
K42-1	J9-Q*	A 208	IG CDU LOOP INHIBIT	20	561
K42-2	K43-2	A 847	27 VDC RELAY AND LAMP POWER LO	20	355
K42-3	K42-6	AA 15	IG CDU MDA SIGNAL	24	585
K42-4	J26-T*	A 411Y	IG CDU MDA SLEW SIGNAL	24	295
K42-5	J38-FF	A 601Y	IG CDU MDA SLEW	24	295
K42-6	K42-3	AA 15	IG CDU MDA SIGNAL	24	585
K42-6	K42-9	AA 16	IG CDU MDA SIGNAL	24	585

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K42	RELAY (1015837-001)				
K42-7	J26-S*	A 411L	IG CDU MDA INPUT RETURN	24	32
K42-8	J10-D	A 232L	IG CDU MDA INPUT RETURN	22	32
K42-8	J38-EE	A 601L	IG CDU MDA LO	24	32
K42-9	K42-6	AA 16	IG CDU MDA SIGNAL	24	585
K42-10	J26-R*	A 411R	IG CDU MDA TACH SIGNAL	24	30
K42-11	J10-C	A 232R	IG CDU MDA TACH SIGNAL	22	30
K42-11	J38-GG	A 601R	IG CDU MDA TACH OUTPUT HI	24	30
K42-12	K42-15	AA 17	IG CDU 1/2 X ERROR SIGNAL LO	24	584
K42-13	J27-NN	A 449L	IG CDU 1/2X ERROR SIGNAL LO	24	61
K42-14	J10-Y	A 238L	IG CDU ERROR SIGNAL RETURN S1	24	61
K42-14	J38-F*	A 590L	IG 1/2X ERROR LO	24	61
K42-15	K42-12	AA 17	IG CDU 1/2 X ERROR SIGNAL HI	24	584
K42-16	J27-MM	A 449R	IG CDU 1/2X ERROR SIGNAL HI	24	60
K42-17	J10-X	A 238R	IG CDU 1/2 X ERROR SIGNAL S3 HI	24	60
K42-17	J38-E*	A 590R	IG 1/2X ERROR HI	24	60
K42-18	K43-1	A 846	K43, K59, K60 COILS HI (K370 MECH)	20	404
K42-19	T87-8E	A1086	27 VDC RELAY AND LAMP POWER HI	20	525
K42-19	K44-19	A1087	27 VDC RELAY AND LAMP POWER HI	20	525
K42-20			SPARE N.C. CONTACT		
	K43 RELAY (1015837-001)				
K43-1	K42-18	A 846	K43, K59, K60 COILS HI (K370 MECH)	20	404
K43-1	K59-1	A 848	K43, K59, K60 COILS, TEST (K370 MECH)	20	404
K43-2	K42-2	A 847	27 VDC RELAY AND LAMP POWER LO	20	355
K43-2	K59-2	A 849	27 VDC RELAY AND LAMP POWER LO	20	355
K43-3			SPARE N.O. CONTACT		
K43-4	J22-M*	A 317L	IG CDU MDA OUTPUT LO	24	162
K43-5	J38-HH	A 602L	IG CDU MDA OUTPUT LO	24	162
K43-6			SPARE N.O. CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K43	RELAY (1015837-001)				
K43-7	J22-K*	A 317Y	0 VDC POWER GND (IMU) C.T.	24	157
K43-7	J38-KK	A 602Y	IG CDU MOTOR C.T. (0 VDC)	24	157
K43-8			SPARE N.C. CONTACT		157
K43-9			SPARE N.O. CONTACT		
K43-10	J22-J*	A 317R	IG CDU MDA OUTPUT HI	24	154
K43-11	J38-JJ	A 602R	IG CDU MDA OUTPUT HI	24	154
K43-12	K43-15	AA 18	IG CDU 1 X ERROR SIGNAL LO	24	586
K43-13	J26-Q*	A 410L	IG CDU 1X ERROR SIGNAL LO	24	291
K43-14	TB17-2D	A 850L	IG CDU 1/2 X ERROR SIGNAL LO	24	291
K43-15	K43-12	AA 18	IG CDU 1 X ERROR SIGNAL HI	24	586
K43-16	J26-P*	A 410R	IG CDU 1X ERROR SIGNAL HI	24	290
K43-17	TB17-1D	A 850R	IG CDU 1/2 X ERROR SIGNAL HI	24	290
K43-18			SPARE N.O. CONTACT		
K43-19			SPARE WIPER CONTACT		
K43-20			SPARE N.C. CONTACT		
	K44 RELAY (1015837-001)				
K44-1	J9-S*	A 210	ENABLE IG IMU RSVR SIG TO GPC	20	563
K44-2	K45-2	A 852	27 VDC RELAY AND LAMP POWER LO	20	355
K44-2	TB7-18E	A 853	27 VDC RELAY AND LAMP POWER LO	20	355
K44-3	J9-R*	A 209	IG POS SEL IND	20	562
K44-4	K45-15	A 854	K44, K45 INDICATIONS (K305A MECH)	20	588
K44-5			SPARE N.C. CONTACT		588
K44-6	J3-G*	A 48R	COS AIG 1X TO POS (HI)	24	335
K44-7	J4-V*	A 76R	COS AIG 1X S3 (HI)	24	139
K44-7	J22-B*	A 313R	IG 1X RSVR COS HI (IMU)	24	139
K44-7	K59-19	A 855R	IG 1/2 X RSVR COS HI (IMU)	24	139
K44-8	TB11-15D	A 856R	IG 1 X COS HI (BAI)	24	139
K44-9	J3-H*	A 48L	COS AIG 1X TO POS (LO)	24	336

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K44	RELAY (1015837-001)				
K44-10	J4-W*	A 76L	COS AIG 1X RET S1	24	141
K44-10	J22-C*	A 313L	IG 1X RSVR COS LO (IMU)	24	141
K44-10	K59-16	A 855L	IG 1/2 X RSVR COS LO (IMU)	24	141
K44-11	TB11-16D	A 856L	IG 1 X COS LO (BAI)	24	141
K44-12	J3-E*	A 47R	SIN AIG 1X TO POS (HI)	24	333
K44-13	J4-T*	A 75R	SIN AIG 1X S4 (HI)	24	143
K44-13	J22-D*	A 314R	IG 1X RSVR SIN HI (IMU)	24	143
K44-13	K59-13	A 857R	IG 1/2 X RSVR SIN HI (IMU)	24	143
K44-14	TB11-17D	A 858R	IG 1 X BAI SIN HI (IMU)	24	143
K44-15	J3-F*	A 47L	SIN AIG 1X TO POS (LO)	24	334
K44-16	J4-U*	A 75L	SIN AIG 1X RET S2	24	145
K44-16	J22-E*	A 314L	IG 1X RSVR SIN LO (IMU)	24	145
K44-16	K59-10	A 857L	IG 1/2 X RSVR SIN LO (IMU)	24	145
K44-17	TB11-18D	A 858L	IG 1 X BAI SIN LO (IMU)	24	145
K44-18	K45-1	A 851	27 VDC RELAY AND LAMP POWER HI	20	587
K44-19	K42-19	A1087	27 VDC RELAY AND LAMP POWER HI	20	525
K44-19	K46-19	A1088	27 VDC RELAY AND LAMP POWER HI	20	525
K44-20			SPARE N.C. CONTACT		
	K45 RELAY (1015837-001)				
K45-1	K44-18	A 851	27 VDC RELAY AND LAMP POWER HI	20	587
K45-2	K44-2	A 852	27 VDC RELAY AND LAMP POWER LO	20	355
K45-2	K45-16	AA 19	27 VDC RELAY AND LAMP POWER LO	24	355
K45-3	J3-C*	A 46R	COS AIG 16X TO POS (HI)	24	331
K45-4	J10-CC	A 244R	COS AIG 16X S3 HI	24	31
K45-4	K59-7	A 859R	AIG 16 X COS CDU HI	24	31
K45-5	K59-8	A 860R	IG 16 X COS HI	24	31
K45-6	J3-D*	A 46L	COS AIG 16X TO POS (LO)	24	332
K45-7	J10-DD	A 244L	COS AIG 16X TO CDU	24	33

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K45	RELAY (1015837-001)				
K45-7	K59-4	A 859L	AIG 16 X COS CDU LO	24	33
K45-8	K59-5	A 860L	IG 16 X COS LO	24	33
K45-9	J3-B*	A 45R	SIN AIG 16X TO POS (LO)	24	329
K45-10	J10-S*	A 241L	SIN AIG 16X S4	24	53
K45-10	K60-13	A 861R	AIG 16 X SIN CDU LO	24	53
K45-11	K60-14	A 862R	IG 16 X SIN LO	24	327
K45-12	J3-A*	A 45L	SIN AIG 16X TO POS (HI)	24	52
K45-13	J10-R*	A 241R	SIN AIG 16X TO CDU	24	52
K45-14	K60-10	A 861L	AIG 16 X SIN CDU HI	24	52
K45-15	K60-11	A 862L	IG 16 X SIN HI	20	588
K45-16	K44-4	A 854	K44, K45 INDICATIONS (K305A MECH)	24	355
K45-17	K45-2	AA 19	27 VDC RELAY AND LAMP POWER LO		
K45-18			SPARE N.C. CONTACT		
K45-19			SPARE N.O. CONTACT		
K45-20			SPARE WIPER CONTACT		
			SPARE N.C. CONTACT		
	K46 RELAY (1015837-001)				
K46-1	J9-U*	A 212	MG CDU LOOP INHIBIT	20	565
K46-2	K47-2	A 864	27 VDC RELAY AND LAMP POWER LO	20	355
K46-3	K46-6	AA 20	MG CDU MDA SLEW SIGNAL	24	590
K46-4	J26-DD	A 415Y	MG CDU MDA SLEW SIGNAL	24	274
K46-5	J33-FF	A 516Y	MG CDU MDA SLEW	24	274
K46-6	K46-3	AA 20	MG CDU MDA INPUT RETURN	24	590
K46-6	K46-9	AA 21	MG CDU MDA INPUT RETURN	24	590
K46-7	J26-CC	A 415L	MG CDU MDA INPUT RETURN	24	36
K46-8	J10-F	A 233L	MG CDU MDA INPUT RET	22	36
K46-8	J33-EE	A 516L	MG CDU MDA LO	24	36
K46-9	K46-6	AA 21	MG CDU MDA TACH SIGNAL	24	590

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K46	RELAY (1015837-001)				
K46-10	J26-BB	A 415R	MG CDU MDA TACH SIGNAL	24	34
K46-11	J10-E	A 233R	MG CDU MDA TACH SIG	22	34
K46-11	J33-GG	A 516R	MG CDU MDA TACH	24	34
K46-12	K46-15	AA 22	MG CDU 1/2 X ERROR SIGNAL LO	24	589
K46-13	J26-Z*	A 414L	MG CDU 1/2X ERROR SIGNAL LO	24	59
K46-14	J10-W	A 237L	MG CDU ERROR SIG RET	24	59
K46-14	J33-F*	A 505L	MG 1/2X ERROR LO	24	59
K46-15	K46-12	AA 22	MG CDU 1/2 X ERROR SIGNAL HI	24	589
K46-16	J26-Y*	A 414R	MG CDU 1/2X ERROR SIGNAL HI	24	58
K46-17	J10-V	A 237R	MG CDU 1/2 X ERROR SIG (HI)	24	58
K46-17	J33-E*	A 505R	MG 1/2X ERROR HI	24	58
K46-18	K47-1	A 863	K47, K63, K64 COILS HI (K371 MECH)	20	413
K46-19	K44-19	A1089	27 VDC RELAY AND LAMP POWER HI	20	525
K46-19	K48-19	A1069	27 VDC RELAY AND LAMP POWER HI	20	525
K46-20			SPARE N.C. CONTACT		
	K47 RELAY (1015837-001)				
K47-1	K46-18	A 863	K47, K63, K64 COILS HI (K371 MECH)	20	413
K47-1	K63-1	A1053	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K47-2	K46-2	A 864	27 VDC RELAY AND LAMP POWER LO	20	355
K47-2	K64-2	A 865	27 VDC RELAY AND LAMP POWER LO	20	355
K47-3			SPARE N.O. CONTACT		
K47-4	J25-KK	A 394L	MG CDU MDA OUTPUT LO	22	261
K47-5	J33-HH	A 517L	MG CDU MDA OUTPUT LO	24	261
K47-6			SPARE N.O. CONTACT		
K47-7	J25-JJ	A 394Y	0 VDC IMU C.T.	22	259
K47-7	J33-KK	A 517Y	MG CDU MOTOR C.T. (0 VDC)	24	259
K47-8			SPARE N.C. CONTACT		259
K47-9			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K47	RELAY (1015837-001)				
K47-10	J25-HH	A 394R	MG CDU MDA OUTPUT HI	22	256
K47-11	J33-JJ	A 517R	MG CDU MDA OUTPUT HI	24	256
K47-12	K47-15	AA 23	MG CDU 1 X ERROR SIGNAL LO	24	591
K47-13	J26-X*	A 413L	MG CDU 1X ERROR SIGNAL LO	24	300
K47-14	TB17-4D	A 866L	MG CDU 1 X ERROR LO	24	300
K47-15	K47-12	AA 23	MG CDU 1 X ERROR SIGNAL HI	24	591
K47-16	J26-W*	A 413R	MG CDU 1X ERROR SIGNAL HI	24	299
K47-17	TB17-3D	A 866R	MG CDU 1 X ERROR HI	24	299
K47-18			SPARE N.O. CONTACT		
K47-19			SPARE WIPER CONTACT		
K47-20			SPARE N.C. CONTACT		
	K48	RELAY (1015837-001)			
K48-1	J9-W*	A 214	ENABLE MG IMU RSVR SIG TO GPC	20	567
K48-2	K49-2	A 868	27 VDC RELAY AND LAMP POWER LO	20	355
K48-2	TB17-17D	A 869	27 VDC RELAY AND LAMP POWER LO	20	355
K48-3	J9-V*	A 213	MG POS SEL IND	20	566
K48-4	K49-15	A 870	K48, K49 INDICATIONS (K311A MECH)	20	593
K48-5			SPARE N.C. CONTACT		593
K48-6	J3-R*	A 52R	COS AMG 1X TO POS (HI)	24	343
K48-7	J4-R*	A 74R	COS AMG 1X S3 (HI)	24	165
K48-7	J5-CC	A 106R	COS AMG 1X S3 (HI)	24	165
K48-7	K63-19	A 871R	MG 1 X RSVR COS (IMU) HI	24	165
K48-8	TB11-11E	A 872R	MG 1 X COS BAI (IMU) HI	24	165
K48-9	J3-S*	A 52L	COS AMG 1X TO POS (LO)	24	344
K48-10	J4-S*	A 74L	COS AMG 1X S1 (LO)	24	168
K48-10	J5-DD	A 106L	COS AMG 1X S1 (LO)	24	168
K48-10	K63-16	A 871L	MG 1 X RSVR COS (IMU) LO	24	168
K48-11	TB11-12E	A 872L	MG 1 X COS BAI (IMU) LO	24	168

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K48	RELAY (1015837-001)				
K48-12	J3-P*	A 51R	SIN AMG 1X TO POS (HI)	24	341
K48-13	J4-P*	A 73R	SIN AMG 1X S4 (HI)	24	170
K48-13	J5-EE	A 107R	SIN AMG 1X S4 (HI)	24	170
K48-13	K63-13	A 873R	MG 1 X RSVR SIN (IMU) HI	24	170
K48-14	TB11-9E	A 874R	MG 1 X SIN BAI (IMU) HI	24	170
K48-15	J3-Q*	A 51L	SIN AMG 1X TO POS (LO)	24	342
K48-16	J4-Q*	A 73L	SIN AMG 1X S2 (LO)	24	172
K48-16	J5-FF	A 107L	SIN AMG 1X S2 (LO)	24	172
K48-16	K63-10	A 873L	MG 1 X RSVR SIN (IMU) LO	24	172
K48-17	TB11-10E	A 874L	MG 1 X SIN BAI (IMU) LO	24	172
K48-18	K49-1	A 867	K49 COIL HI (K311 MECH)	20	592
K48-19	K46-19	A1089	27 VDC RELAY AND LAMP POWER HI	20	525
K48-19	K50-19	A1090	27 VDC RELAY AND LAMP POWER HI	20	525
K48-20			SPARE N.C. CONTACT		
	K49	RELAY (1015837-001)			
K49-1	K48-18	A 867	K49 COIL HI (K311 MECH)	20	592
K49-2	K48-2	A 868	27 VDC RELAY AND LAMP POWER LO	20	355
K49-2	K49-16	AA 24	27 VDC RELAY AND LAMP POWER LO	24	355
K49-3	J3-M*	A 50R	COS AMG 16X TO POS (HI)	24	339
K49-4	J22-S*	A 320R	CDU COS AMG 16X HI	24	28
K49-4	K63-7	A 875R	CDU COS AMG 16 X HI	24	28
K49-5	K63-8	A 876R	MG 16 X COS HI	24	28
K49-6	J3-N*	A 50L	COS AMG 16X TO POS (LO)	24	340
K49-7	J22-T*	A 320L	CDU COS AMG 16X LO	24	29
K49-7	K63-4	A 875L	CDU COS AMG 16 X LO	24	29
K49-8	K63-5	A 876L	MG 16 X COS LO	24	29
K49-9	J3-K*	A 49R	SIN AMG 16X TO POS (LO)	24	338
K49-10	J22-U*	A 321R	CDU SIN AMG 16X LO	24	51

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K49	RELAY (1015837-001)				
K49-10	K64-13	A 877R	CDU SIN AMG 16 X LO	24	51
K49-11	K64-14	A 878R	MG 16 X SIN LO	24	51
K49-12	J3-J*	A 49L	SIN AMG 16X TO POS (HI)	24	337
K49-13	J22-V*	A 321L	CDU SIN AMG 16X HI	24	49
K49-13	K64-10	A 877L	CDU SIN AMG 16 X HI	24	49
K49-14	K64-11	A 878L	MG 16 X SIN HI	24	49
K49-15	K48-4	A 870	K48, K49 INDICATIONS (K311A MECH)	20	593
K49-16	K49-2	AA 24	27 VDC RELAY AND LAMP POWER LO	24	355
K49-17			SPARE N.C. CONTACT		
K49-18			SPARE N.O. CONTACT		
K49-19			SPARE WIPER CONTACT		
K49-20			SPARE N.C. CONTACT		
	K50	RELAY (1015837-001)			
K50-1	J9-X*	A 215	OG CDU LOOP INHIBIT	20	568
K50-2	K51-2	A 880	27 VDC RELAY AND LAMP POWER LO	20	355
K50-3	K50-6	AA 25	OG CDU MDA TACH - SLEW - INPUT, COM	24	595
K50-4	J26-NN	A 419Y	OG CDU MDA SLEW SIGNAL	24	288
K50-5	J32-FF	A 495Y	OG CDU MDA SLEW	24	288
K50-6	K50-3	AA 25	OG CDU MDA TACH - SLEW - INPUT COM	24	595
K50-6	K50-9	AA 26	OG CDU MDA TACH - SLEW - INPUT COM	24	595
K50-7	J26-MM	A 419L	OG CDU MDA INPUT RETURN	24	41
K50-8	J10-H	A 234L	OG CDU MDA INPUT RET	22	41
K50-8	J32-EE	A 495L	OG CDU MDA LO	24	41
K50-9	K50-6	AA 26	OG CDU MGA TACH - SLEW - INPUT COM	24	595
K50-10	J26-LL	A 419R	OG CDU MDA TACH SIGNAL	24	38
K50-11	J10-G	A 234R	OG CDU MDA TACH SIG	22	38
K50-11	J32-GG	A 495R	OG CDU MDA TACH	24	38
K50-12	K50-15	AA 27	OG CDU 1 X ERROR SIGNAL COM	24	594

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K50	RELAY (1015837-001)				
K50-13	J26-HH	A 417L	OG CDU 1X ERROR SIGNAL LO	24	280
K50-14	TB17-6D	A 881L	OG CDU 1 X ERROR SIGNAL LO	24	280
K50-15	K50-12	AA 27	OG CDU 1 X ERROR SIGNAL COM	24	594
K50-16	J26-GG	A 417R	OG CDU 1X ERROR SIGNAL HI	24	278
K50-17	TB17-5D	A 881R	OG CDU 1 X ERROR SIGNAL HI	24	278
K50-18	K51-1	A 879	K51, K67, K68 COILS HI (K372 MECH)	20	417
K50-19	K48-19	A1090	27 VDC RELAY AND LAMP POWER HI	20	525
K50-19	K52-19	A1091	27 VDC RELAY AND LAMP POWER HI	20	525
K50-20			SPARE N.C. CONTACT		
	K51	RELAY (1015837-001)			
K51-1	K50-18	A 879	K51, K67, K68 COILS HI (K372 MECH)	20	417
K51-1	K67-1	A 882	27 VDC RELAY AND LAMP POWER HI	20	417
K51-2	K50-2	A 880	27 VDC RELAY AND LAMP POWER LO	20	355
K51-2	K68-2	A 883	27 VDC RELAY AND LAMP POWER LO	20	355
K51-3			SPARE N.O. CONTACT	22	266
K51-4	J25-NN	A 395L	OG CDU MDA OUTPUT LO	24	266
K51-5	J32-HH	A 496L	OG CDU MDA OUTPUT LO		
K51-6			SPARE N.O. CONTACT	22	264
K51-7	J25-MM	A 395Y	0 VDC IMU C.T.	24	264
K51-7	J32-KK	A 496Y	OG CDU MOTOR C.T. (0 VDC)		264
K51-8			SPARE N.C. CONTACT		
K51-9			SPARE N.O. CONTACT	22	262
K51-10	J25-LL	A 395R	OG CDU MDA OUTPUT HI	24	262
K51-11	J32-JJ	A 496R	OG CDU MDA OUTPUT HI	24	596
K51-12	K51-15	AA 28	OG CDU 1/2 X ERROR SIGNAL COM	24	56
K51-13	J26-KK	A 418L	OG CDU 1/2X ERROR SIGNAL LO	24	56
K51-14	J10-U	A 236L	OG CDU ERROR SIG RET	24	56
K51-14	J32-F*	A 484L	OG 1/2X ERROR LO		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) K51	RELAY (1015837-001)				
K51-15	K51-12	AA 28	OG CDU 1/2 X ERROR SIGNAL COM	24	596
K51-16	J26-JJ	A 418R	OG CDU 1/2X ERROR SIGNAL HI	24	54
K51-17	J10-T	A 236R	OG CDU 1/2 X ERROR SIG (HI)	24	54
K51-17	J32-E*	A 484R	OG 1/2X ERROR HI	24	54
K51-18			SPARE N.O. CONTACT		
K51-19			SPARE WIPER CONTACT		
K51-20			SPARE N.C. CONTACT		
	K52 RELAY (1015837-001)				
K52-1	J9-Z*	A 217	ENABLE OG IMU RSVR SIG TO GPC	20	571
K52-2	K53-2	A 885	27 VDC RELAY AND LAMP POWER LO	20	355
K52-2	TB7-16D	A 886	27 VDC RELAY AND LAMP POWER LO	20	355
K52-3	J9-Y*	A 216	OG POS SELECTED IND	20	570
K52-4	K53-15	A 887	K52, K53 INDICATIONS (K317A MECH)	20	598
K52-5			SPARE N.C. CONTACT		598
K52-6	J3-AA	A 56R	COS AOG 1X TO POS (HI)	24	328
K52-7	K67-19	A 889	CDU COS AOG 1 X HI	24	180
K52-8	K67-20	A 890R	CDU COS AOG 1 X HI	24	180
K52-9	J3-BB	A 56L	COS AOG 1X TO POS (LO)	24	330
K52-10	TB11-14E	A 888	CDU COS AOG 1 X LO	24	184
K52-11	K67-17	A 890L	CDU COS AOG 1 X LO	24	184
K52-12	J3-Y*	A 55R	SIN AOG 1X TO POS (LO)	24	350
K52-13	K67-13	A 891	CDU SIN AOG 1 X LO	24	151
K52-14	K67-14	A 893R	CDU SIN AOG 1 X LO	24	151
K52-15	J3-X*	A 55L	SIN AOG 1X TO POS (HI)	24	349
K52-16	TB11-8E	A 892	CDU SIN AOG 1 X HI	24	156
K52-17	K67-11	A 893L	CDU SIN AOG 1 X HI	24	156
K52-18	K53-1	A 884	K53 COIL HI (K317 MECH)	20	597
K52-19	K50-19	A1091	27 VDC RELAY AND LAMP POWER HI	20	525

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) K52	RELAY (1015837-001)				
K52-20			SPARE N.C. CONTACT		
	K53 RELAY (1015837-001)				
K53-1	K52-18	A 884	K53 COIL HI (K317 MECH)	20	597
K53-2	K52-2	A 885	27 VDC RELAY AND LAMP POWER LO	20	355
K53-2	K53-16	AA 29	27 VDC RELAY AND LAMP POWER LO	24	355
K53-3	J3-V*	A 54R	COS AOG 16X TO POS (HI)	24	347
K53-4	J22-AA	A 324R	CDU COS AOG 16X HI	24	55
K53-4	K67-7	A 894R	CDU COS AOG 16 X HI	24	55
K53-5	K67-8	A 895R	OG 16 X COS HI	24	55
K53-6	J3-W*	A 54L	COS AOG 16X TO POS (LO)	24	348
K53-7	J22-BB	A 324L	CDU COS AOG 16X LO	24	57
K53-7	K67-4	A 894L	CDU COS AOG 16 X LO	24	57
K53-8	K67-5	A 895L	OG 16 X COS LO	24	57
K53-9	J3-T*	A 53R	SIN AOG 16X TO POS (HI)	24	345
K53-10	J22-CC	A 325R	CDU SIN AOG 16X HI	24	45
K53-10	K68-13	A 896R	CDU SIN AOG 16 X HI	24	45
K53-11	K68-14	A 897R	OG 16 X SIN HI	24	45
K53-12	J3-U*	A 53L	SIN AOG 16X TO POS (LO)	24	346
K53-13	J22-DD	A 325L	CDU SIN AOG 16X LO	24	47
K53-13	K68-10	A 896L	CDU SIN AOG 16 X LO	24	47
K53-14	K68-11	A 897L	OG 16 X SIN LO	24	47
K53-15	K52-4	A 887	K52, K53 INDICATIONS (K317A MECH)	20	598
K53-16	K53-2	AA 29	27 VDC RELAY AND LAMP POWER LO	24	355
K53-17			SPARE N.C. CONTACT		
K53-18			SPARE N.O. CONTACT		
K53-19			SPARE WIPER CONTACT		
K53-20			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	K54 RELAY (1015837-001)				
K54-1	J9-KK	A 227	IRIG TEST SELECTED	20	557
K54-2	K38-2	A 835	27 VDC RELAY AND LAMP POWER LO	20	355
K54-2	TB7-19E	A 898	27 VDC RELAY AND LAMP POWER LO	20	355
K54-3	K55-5	A 899R	OG ERROR SIGNAL HI	24	166
K54-4	J5-V	A 92R	IMU OG ERROR SIG (HI)	24	166
K54-4	J22-NN	A 330R	OG ERROR SIGNAL HI	24	166
K54-5	K55-4	A 900R	OG ERROR SIGNAL HI	24	166
K54-6	K55-8	A 899L	OG ERROR SIGNAL LO	24	169
K54-7	J5-W	A 92L	IMU GIMBAL AND GYRO ERROR SIG LO	24	169
K54-7	J22-PP	A 330L	OG ERROR SIGNAL LO	24	169
K54-8	K55-7	A 900L	OG ERROR SIGNAL LO	24	169
K54-9	K40-5	A 843R	MG ERROR SIGNAL HI	24	160
K54-10	J5-NN	A 111R	IMU MG ERROR SIG (HI)	24	160
K54-10	J22-LL	A 329R	MG ERROR SIGNAL HI	24	160
K54-11	J26-H*	A 407R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
K54-11	K56-4	A 901R	MG ERROR SIGNAL HI	24	160
K54-12	K40-8	A 843L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K54-13	J5-PP	A 111L	IMU GIMBAL AND GYRO ERROR SIG LO	24	163
K54-13	J22-MM	A 329L	MG ERROR SIGNAL LO	24	163
K54-14	J26-J*	A 407L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K54-14	K56-7	A 901L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K54-15	K38-1	A 834	K38 COIL HI (K346 MECH)	20	581
K54-16	TB7-8D	A1085	27 VDC RELAY AND LAMP POWER HI	20	525
K54-16	K57-16	A1092	27 VDC RELAY AND LAMP POWER HI	20	525
K54-17			SPARE N.C. CONTACT		
K54-18			SPARE N.O. CONTACT		
K54-19			SPARE WIPER CONTACT		
K54-20			SPARE N.C. CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	K55 RELAY (1015837-001)				
K55-1	J9-J*	A 203	X-GYRO ERROR TO OG S A	20	554
K55-2	TB7-19D	A 902	27 VDC RELAY AND LAMP POWER LO	20	355
K55-3	K38-9	A 838R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K55-3	K40-3	A 841R	OUTER GIMBAL ERROR SIGNAL HI	24	583
K55-4	J26-J*	A 408R	OUTER GIMBAL ERROR SIGNAL HI	24	166
K55-4	K54-5	A 900R	OG ERROR SIGNAL HI	24	166
K55-5	K54-3	A 899R	OG ERROR SIGNAL HI	24	166
K55-6	K38-12	A 838L	OUTER GIMBAL ERROR SIGNAL HI	24	148
K55-6	K40-6	A 841L	OUTER GIMBAL ERROR SIGNAL HI	24	148
K55-7	J26-K*	A 408L	OUTER GIMBAL ERROR SIGNAL LO	24	169
K55-7	K54-8	A 900L	OG ERROR SIGNAL LO	24	169
K55-8	K54-6	A 899L	OG ERROR SIGNAL LO	24	169
K55-9			SPARE N.O. CONTACT		
K55-10			SPARE WIPER CONTACT		
K55-11			SPARE N.C. CONTACT		
K55-12			SPARE N.O. CONTACT		
K55-13			SPARE WIPER CONTACT		
K55-14			SPARE N.C. CONTACT		
K55-15			SPARE N.O. CONTACT		
K55-16			SPARE WIPER CONTACT		
K55-17			SPARE N.C. CONTACT		
K55-18			SPARE N.O. CONTACT		
K55-19			SPARE WIPER CONTACT		
K55-20			SPARE N.C. CONTACT		
	K56 RELAY (1015837-001)				
K56-1	J9-N*	A 206	INVERT Z-GYRO ERROR	20	559
K56-2	TB7-18B	A 903	27 VDC RELAY AND LAMP POWER LO	20	355
K56-3	E4	A 904W	ISOLATION TRANSFORMER OUTPUT TERM. 3	24	5

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K56	RELAY (1015837-001)				
K56-4	K54-11	A 901R	MG ERROR SIGNAL HI	24	160
K56-4	K56-11	AA 30	MG ERROR SIGNAL HI	24	160
K56-5			SPARE N.C. CONTACT		
K56-6	E2	A 905L	ISOLATION TRANSFORMER INPUT TERM. 2	24	2
K56-7	K41-7	A 845L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K56-7	K54-14	A 901L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K56-8			SPARE N.C. CONTACT		163
K56-9	E3	A 905R	ISOLATION TRANSFORMER INPUT TERM. 1	24	4
K56-10	K41-4	A 845R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
K56-11	K56-4	AA 30	MG ERROR SIGNAL HI	24	160
K56-12			SPARE N.O. CONTACT		
K56-13			SPARE WIPER CONTACT		
K56-14			SPARE N.C. CONTACT		
K56-15			SPARE N.O. CONTACT		
K56-16			SPARE WIPER CONTACT		
K56-17			SPARE N.C. CONTACT		
K56-18			SPARE N.O. CONTACT		
K56-19			SPARE WIPER CONTACT		
K56-20			SPARE N.C. CONTACT		
	K57	RELAY (1015837-001)			
K57-1	J9-P*	A 207	IG CDU TEST COMMAND	20	560
K57-2	TB7-18C	A 907	27 VDC RELAY AND LAMP POWER LO	20	355
K57-2	K58-2	A 908	27 VDC RELAY AND LAMP POWER LO	20	355
K57-3	K61-3	A 909L	IG 16 X SIN HI	24	105
K57-4	J38-U*	A 596L	IG 16X SINE HI	24	52
K57-5	K60-11	A 910L	IG 16 X SIN HI	24	52
K57-6	K61-6	A 909R	IG 16 X SIN LO	24	103
K57-7	J38-T*	A 596R	IG 16X SINE LO	24	53

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K57	RELAY (1015837-001)				
K57-8	K60-14	A 910R	IG 16 X SIN LO	24	53
K57-9	K61-9	A 911L	IG 16 X COS LO	24	110
K57-10	J38-S*	A 595L	IG 16X COSINE LO	24	33
K57-11	K59-5	A 912L	IG 16 X COS LO	24	33
K57-12	K61-12	A 911R	IG 16 X COS HI	24	108
K57-13	J38-R*	A 595R	IG 16X COSINE HI	24	31
K57-14	K59-8	A 912R	IG 16 X COS HI	24	31
K57-15	K58-1	A 906	K58 COIL HI (K306 MECH)	20	599
K57-16	K54-16	A1092	27 VDC RELAY AND LAMP POWER HI	20	525
K57-16	K61-16	A1093	27 VDC RELAY AND LAMP POWER HI	20	525
K57-17			SPARE N.C. CONTACT		
K57-18			SPARE N.O. CONTACT		
K57-19			SPARE WIPER CONTACT		
K57-20			SPARE N.C. CONTACT		
	K58	RELAY (1015837-001)			
K58-1	K57-15	A 906	K58 COIL HI (K306 MECH)	20	599
K58-2	K57-2	A 908	27 VDC RELAY AND LAMP POWER LO	20	355
K58-3	K62-3	A 913L	IG 1 X SIN HI	24	111
K58-4	J38-N*	A 593L	IG 1X SINE HI	24	143
K58-5	K59-14	A 914R	IG 1 X BAI SIN HI (IMU)	24	143
K58-6	K62-6	A 913R	IG 1 X SIN LO	24	112
K58-7	J38-W*	A 593R	IG 1X SINE LO	24	145
K58-8	K59-11	A 914L	IG 1 X BAI SIN LO (IMU)	24	145
K58-9	K62-9	A 915L	IG 1 X COS LO	24	116
K58-10	J38-K*	A 592L	IG 1X COSINE LO	24	141
K58-11	K59-17	A 916L	IG 1 X COS LO (BAI)	24	141
K58-12	K62-12	A 915R	IG 1X COS HI	24	114
K58-13	J38-J*	A 592R	IG 1X COSINE HI	24	139

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K58	RELAY (1015837-001)				
K58-14	K59-20	A 916R	IG 1X COS HI (BAI)	24	139
K58-15			SPARE N.O. CONTACT		
K58-16			SPARE WIPER CONTACT		
K58-17			SPARE N.C. CONTACT		
K58-18			SPARE N.O. CONTACT		
K58-19			SPARE WIPER CONTACT		
K58-20			SPARE N.C. CONTACT		
	K59	RELAY (1015837-001)			
K59-1	K43-1	A 848	K43, K59, K60 COILS, TEST (K370 MECH)	20	404
K59-1	K60-1	A 917	K43, K59, K60 COILS, TEST (K370 MECH)	20	404
K59-2	K43-2	A 849	27 VDC RELAY AND LAMP POWER LO	20	355
K59-2	K60-2	A 918	27 VDC RELAY AND LAMP POWER LO	20	355
K59-3			SPARE N.O. CONTACT		
K59-4	J22-G*	A 315L	CDU COS AIG 16X LO	24	33
K59-4	K45-7	A 859L	CDU COS AIG 16 X LO	24	33
K59-5	K45-8	A 860L	IG 16 X COS LO	24	33
K59-5	K57-11	A 912L	IG 16 X COS LO	24	33
K59-6			SPARE N.O. CONTACT		
K59-7	J22-F*	A 315R	CDU COS AIG 16X HI	24	31
K59-7	K45-4	A 859R	AIG 16 X COS CDU HI	24	31
K59-8	K45-5	A 860R	IG 16 X COS HI	24	31
K59-8	K57-14	A 912R	IG 16 X COS HI	24	31
K59-9			SPARE N.O. CONTACT		
K59-10	J5-MM	A 110L	SIN AIG 1X RET S2	24	145
K59-10	K44-16	A 857L	IG 1/2 X RSVR SIN LO (IMU)	24	145
K59-11	K58-8	A 914L	IG 1 X BAI SIN LO (IMU)	24	145
K59-11	TB11-18E	A 919L	IG 1 X BAI SIN LO (IMU)	24	145
K59-12			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K59	RELAY (1015837-001)				
K59-13	J5-LL	A 110R	SIN AIG 1X S4 (HI)	24	143
K59-13	K44-13	A 857R	IG 1/2 X RSVR SIN HI (IMU)	24	143
K59-14	K58-5	A 914R	IG 1 X BAI SIN HI (IMU)	24	143
K59-14	TB11-17E	A 919R	IG 1 X BAI SIN HI (IMU)	24	143
K59-15			SPARE N.O. CONTACT		
K59-16	J5-KK	A 109R	COS AIG 1X RET S1	24	141
K59-16	K44-10	A 855L	IG 1/2 X RSVR LO (IMU)	24	141
K59-17	K58-11	A 916L	IG 1 X COS LO (BAI)	24	141
K59-17	TB11-16E	A 920L	IG 1 X COS LO (BAI)	24	141
K59-18			SPARE N.O. CONTACT		
K59-19	J5-JJ	A 109L	COS AIG 1X S3 (HI)	24	139
K59-19	K44-7	A 855R	IG 1/2 X RSVR COS HI (IMU)	24	139
K59-20	K58-14	A 916R	IG 1 X COS HI (BAI)	24	139
K59-20	TB11-15E	A 920R	IG 1 X COS HI (BAI)	24	139
	K60	RELAY (1015837-001)			
K60-1	J34-M*	A 536	FOR GSE USE ONLY	24	404
K60-1	K59-1	A 917	K43, K59, K60 COILS TEST (K370 MECH)	20	404
K60-2	K59-2	A 918	27 VDC RELAY AND LAMP POWER LO	20	355
K60-2	TB7-18D	A 921	27 VDC RELAY AND LAMP POWER LO	20	355
K60-3	K60-6	AA126	IG CDU 16 X ERROR SIGNAL	24	600
K60-4	J26-M*	A 409L	IG CDU 16X ERROR SIGNAL LO	24	287
K60-5	J38-Q*	A 594L	IG 16X ERROR LO	24	287
K60-6	K60-3	AA126	IG CDU 16 X ERROR SIGNAL COM	24	600
K60-7	J26-M*	A 409R	IG CDU 16X ERROR SIGNAL HI	24	285
K60-8	J38-P*	A 594R	IG 16X ERROR HI	24	285
K60-9			SPARE N.O. CONTACT		
K60-10	J22-I*	A 316L	CDU SIN AIG 16X HI	24	52
K60-10	K45-13	A 861L	AIG 16 X SIN CDU HI	24	52

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K60	RELAY (1015837-001)				
K60-11	K45-14	A 862L	IG 16 X SIN HI	24	52
K60-11	K57-5	A 910L	IG 16 X SIN HI	24	52
K60-12			SPARE N.O. CONTACT		
K60-13	J22-H*	A 316R	CDU SIN AIG 16X LO	24	53
K60-13	K45-10	A 861R	AIG 16 X SIN CDU LO	24	53
K60-14	K45-11	A 862R	IG 16 X SIN LO	24	53
K60-14	K57-8	A 910R	IG 16 X SIN LO	24	53
K60-15			SPARE N.O. CONTACT		
K60-16			SPARE WIPER CONTACT		
K60-17			SPARE N.C. CONTACT		
K60-18			SPARE N.O. CONTACT		
K60-19			SPARE WIPER CONTACT		
K60-20			SPARE N.C. CONTACT		
	K61	RELAY (1015837-001)			
K61-1	J9-T*	A 211	MG CDU TEST COMMAND	20	564
K61-2	K62-2	A 923	27 VDC RELAY AND LAMP POWER LO	20	355
K61-2	TB7-17B	A 924	27 VDC RELAY AND LAMP POWER LO	20	355
K61-3	K57-3	A 909L	IG 16 X SIN HI	24	105
K61-3	K65-3	A 925L	IG 16 X SIN HI	24	105
K61-4	J33-U*	A 511L	MG 16X SINE HI	24	49
K61-5	K64-11	A 926L	MG 16 X SIN HI	24	49
K61-6	K57-6	A 909R	IG 16 X SIN LO	24	103
K61-6	K65-6	A 925R	IG 16 X SIN LO	24	103
K61-7	J33-T*	A 511R	MG 16X SINE LO	24	51
K61-8	K64-14	A 926R	MG 16 X SIN LO	24	51
K61-9	K57-9	A 911L	IG 16 X COS LO	24	110
K61-9	K65-9	A 927L	IG 16 X COS LO	24	110
K61-10	J33-S*	A 510L	MG 16X COSINE LO	24	29

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K61	RELAY (1015837-001)				
K61-11	K63-5	A 928L	MG 16 X COS LO	24	29
K61-12	K57-12	A 911R	IG 16 X COS HI	24	108
K61-12	K65-12	A 927R	IG 16 X COS HI	24	108
K61-13	J33-R*	A 510R	MG 16X COSINE HI	24	28
K61-14	K63-8	A 928R	MG 16 X COS HI	24	28
K61-15	K62-1	A 922	K62 COIL HI (K307 MECH)	20	601
K61-16	K57-16	A1093	27 VDC RELAY AND LAMP POWER HI	20	525
K61-16	K65-16	A1094	27 VDC RELAY AND LAMP POWER HI	20	525
K61-17			SPARE N.C. CONTACT		
K61-18			SPARE N.O. CONTACT		
K61-19			SPARE WIPER CONTACT		
K61-20			SPARE N.C. CONTACT		
	K62	RELAY (1015837-001)			
K62-1	K61-15	A 922	27 VDC RELAY AND LAMP POWER HI	20	601
K62-2	K61-2	A 923	27 VDC RELAY AND LAMP POWER LO	20	355
K62-3	K58-3	A 913L	IG 1 X SIN HI	24	111
K62-3	K66-3	A 929L	IG 1 X SIN HI	24	111
K62-4	J33-N*	A 508L	MG 1X SINE HI	24	170
K62-5	K63-14	A 930R	MG 1 X SIN BAI (IMU) HI	24	170
K62-6	K58-6	A 913R	IG 1 X SIN LO	24	112
K62-6	K66-6	A 929R	IG 1 X SIN LO	24	112
K62-7	J33-M*	A 508R	MG 1X SINE LO	24	172
K62-8	K63-11	A 930L	MG 1 X SIN BAI (IMU) LO	24	172
K62-9	K58-9	A 915L	IG 1 X COS LO	24	116
K62-9	K66-9	A 931L	IG 1 X COS LO	24	116
K62-10	J33-K*	A 507L	MG 1X COSINE LO	24	168
K62-11	K63-17	A 932L	MG 1 X COS BAI (IMU) LO	24	168
K62-12	K58-12	A 915R	MG 1 X COS HI	24	114

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K62	RELAY (1015837-001)				
K62-12	K66-12	A 931R	MG 1 X COS HI	24	114
K62-13	J33-J*	A 507R	MG 1X COSINE HI	24	165
K62-14	K63-20	A 932R	MG 1X COS BAI (IMU) HI	24	165
K62-15			SPARE N.O. CONTACT		
K62-16			SPARE WIPER CONTACT		
K62-17			SPARE N.C. CONTACT		
K62-18			SPARE N.O. CONTACT		
K62-19			SPARE WIPER CONTACT		
K62-20			SPARE N.C. CONTACT		
	K63	RELAY (1015837-001)			
K63-1	K64-1	A 933	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K63-1	K47-1	A1053	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K63-2	K64-2	A 934	27 VDC RELAY AND LAMP POWER LO	20	355
K63-2	TB7-17C	A 935	27 VDC RELAY AND LAMP POWER LO	20	355
K63-3			SPARE N.O. CONTACT		
K63-4	J10-BB	A 243L	COS AMG 16X TO CDU	24	29
K63-4	K49-7	A 875L	CDU COS AMG 16 X LO	24	29
K63-5	K49-8	A 876L	MG 16 X COS LO	24	29
K63-5	K61-11	A 928L	MG 16 X COS LO	24	29
K63-6			SPARE N.O. CONTACT		
K63-7	J10-AA	A 243R	COS AMG 16X S3 (HI)	24	28
K63-7	K49-4	A 875R	CDU COS AMG 16 X HI	24	28
K63-8	K49-5	A 876R	MG 16 X COS HI	24	28
K63-8	K61-14	A 928R	MG 16 X COS HI	24	28
K63-9			SPARE N.O. CONTACT		
K63-10	J22-R*	A 319L	MG 1X RSVR SIN LO (IMU)	24	172
K63-10	K48-16	A 873L	MG 1 X RSVR SIN LO (IMU)	24	172
K63-11	K62-8	A 930L	MG 1 X SIN BAI (IMU) LO	24	172

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K63	RELAY (1015837-001)				
K63-11	TB11-10D	A 936L	MG 1 X SIN BAI (IMU) LO	24	172
K63-12			SPARE N.O. CONTACT		
K63-13	J22-Q*	A 319R	MG 1X RSVR SIN HI (IMU)	24	170
K63-13	K48-13	A 873R	MG 1 X RSVR SIN HI (IMU)	24	170
K63-14	K62-5	A 930R	MG 1 X BAI (IMU) HI	24	170
K63-14	TB11-9D	A 936R	MG 1 X SIN BAI (IMU) HI	24	170
K63-15			SPARE N.O. CONTACT		
K63-16	J22-P*	A 318L	MG 1X RSVR COS LO (IMU)	24	168
K63-16	K48-10	A 871L	MG 1 X RSVR COS LO (IMU)	24	168
K63-17	K62-11	A 932L	MG 1 X COS BAI (IMU) LO	24	168
K63-17	TB11-12D	A 937L	MG 1 X COS BAI (IMU) LO	24	168
K63-18			SPARE N.O. CONTACT		
K63-19	J22-N*	A 318R	MG 1X RSVR COS HI (IMU)	24	165
K63-19	K48-7	A 871R	MG 1 X RSVR COS HI (IMU)	24	165
K63-20	K62-14	A 932R	MG 1 X COS BAI (IMU) HI	24	165
K63-20	TB11-11D	A 937R	MG 1 X COS BAI (IMU) HI	24	165
	K64	RELAY (1015837-001)			
K64-1	J34-W*	A 541	FOR GSE USE ONLY	20	413
K64-1	K63-1	A 933	K47, K63, K64 COILS TEST (K371 MECH)	20	413
K64-2	K47-2	A 865	27 VDC RELAY AND LAMP POWER LO	20	355
K64-2	K63-2	A 934	27 VDC RELAY AND LAMP POWER LO	20	355
K64-3	K64-6	AA 31	MG CDU 16 X ERROR SIGNAL COM	24	602
K64-4	J26-V*	A 412L	MG CDU 16X ERROR SIGNAL LO	24	297
K64-5	J33-Q*	A 509L	MG 16X ERROR LO	24	297
K64-6	K64-3	AA 31	MG CDU 16 X ERROR SIGNAL COM	24	602
K64-7	J26-U*	A 412R	MG CDU 16X ERROR SIGNAL HI	24	296
K64-8	J33-P*	A 509R	MG 16X ERROR HI	24	296
K64-9			SPARE N.O. CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K68	RELAY (1015837-001)				
K68-9			SPARE N.O. CONTACT		
K68-10	J10-N*	A 239L	SIN AOG 16X S4 (LO)	24	47
K68-10	K53-13	A 896L	CDU SIN AOG 16 X LO	24	47
K68-11	K53-14	A 897L	OG 16 X SIN LO	24	47
K68-11	K65-8	A 941R	OG 16 X SIN LO	24	47
K68-12			SPARE N.O. CONTACT		
K68-13	J10-M*	A 239R	SIN AOG 16X TO CDU	24	45
K68-13	K53-10	A 896R	CDU SIN 16 X AOG HI	24	45
K68-14	K53-11	A 897R	OG 16 X SIN HI	24	45
K68-14	K65-5	A 941L	OG 16 X SIN HI	24	45
K68-15			SPARE N.O. CONTACT		
K68-16			SPARE WIPER CONTACT		604
K68-17			SPARE N.C. CONTACT		604
K68-18			SPARE N.O. CONTACT		
K68-19			SPARE WIPER CONTACT		605
K68-20			SPARE N.C. CONTACT		605
P1	27 PIN CONNECTOR (1016059-100) BLACK KEYED NORMAL				
P1-A	K7-7	A 950	PROCEED VOLTAGE	20	555
P1-A	P1-D	AA 33	PROCEED VOLTAGE	24	555
P1-B	TB7-16B	A 951	27 VDC RELAY AND LAMP POWER LO	20	355
P1-C	K25-8	A 952	K10 STEP SWITCH INTERRUPTER CONTACT	24	577
P1-D	TB1-22	A 953	PROCEED VOLTAGE TO A1R1	24	555
P1-D	P1-A	AA 33	PROCEED VOLTAGE	24	555
P1-E			SPARE CONTACT		
P1-F			SPARE CONTACT		
P1-G			SPARE CONTACT		
P1-H			SPARE CONTACT		
P1-J			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P1	27 PIN CONNECTOR (1016059-100) BLACK KEYED NORMAL				
P1-K			SPARE CONTACT		
P1-L			SPARE CONTACT		
P1-M			SPARE CONTACT		
P1-N			SPARE CONTACT		
P1-P			SPARE CONTACT		
P1-R			SPARE CONTACT		
P1-S			SPARE CONTACT		
P1-T			SPARE CONTACT		
P1-U	K25-4	A 954	CONT TEST ENABLE (28 VDC)	24	550
P1-U	P4-F	A 955	CONT TEST ENABLE (28 VDC)	24	550
P1-V	K25-1	A 956	K10 STEP SWITCH OFF-NORM CONT, HOME POS	24	575
P1-W	K25-7	A 957	OFF-NORM CONT (NOT HOME POS) TO A1C1	24	576
P1-W	TB1-24	A 959	K10 STEP SWITCH OFF-NORM CONT (NOT HOME POS)	24	576
P1-X	TB7-12B	A 958	27 VDC RELAY AND LAMP PWR HI	24	525
P1-Y			SPARE CONTACT		
P1-Z			SPARE CONTACT		
P1-A*			SPARE CONTACT		
P1-B*			SPARE CONTACT		
P1-C*			SPARE CONTACT		
P1-D*			SPARE CONTACT		
P2	27 PIN CONNECTOR (1016059-101) BLACK KEYED W				
P2-A	J44-DD	A 704	ZERO OPTICS TO COMPUTER	20	506
P2-B	J44-U	A 687	SXT POWER TO COMPUTER	24	515
P2-C	J44-S	A 686	ATTITUDE DISABLE SIGNAL (28 VDC TO NAA)	24	513
P2-D	J44-B*	A 692	26 VOLTS 400 CPS SLEW	24	503
P2-D	P2-G	AA 34	26 VOLTS 400 CPS SLEW	24	503
P2-E	J43-E*	A 672	0.5 V 400 CPS ZERO PHASE	24	494
P2-F	J44-E*	A 695	28 VDC HI	20	507

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P2	27 PIN CONNECTOR (1016059-101) BLACK KEYED W				
P2-F	P2-J	AA 36	28 VDC HI	24	507
P2-G	P2-D	AA 34	26 VOLTS 400 CPS SLEW	24	503
P2-G	P2-R	AA 35	26 VOLTS 400 CPS SLEW	24	503
P2-H	J43-F*	A 673	0.5 V 400 CPS P1 PHASE	24	496
P2-J	P2-F	AA 36	28 VDC HI	24	507
P2-J	P2-K	AA 37	28 VDC HI	24	507
P2-K	P2-J	AA 37	28 VDC HI	24	507
P2-K	P2-T	AA 38	28 VDC HI	24	507
P2-L	J44-M*	A 696	6 VOLTS 400 CPS (TO M AND DV)	20	508
P2-M	J44-S*	A 700	M AND DV INTENSITY LO	24	514
P2-N	J44-R*	A 699	M AND DV INTENSITY HI	24	512
P2-P	J44-Z	A 690	STEP UP C	24	517
P2-P	P2-U	AA 40	STEP UP C	24	517
P2-R	P2-G	AA 35	28 VOLTS 400 CPS SLEW	24	503
P2-R	P2-Y	AA 39	28 VOLTS 400 CPS SLEW	24	503
P2-S	J44-D*	A 694	26 VOLTS 400 CPS MOTOR EXCITATION	20	505
P2-S	P2-V	AA 41	26 VOLTS 400 CPS MOTOR EXCITATION	24	505
P2-T	P2-K	AA 38	28 VDC HI	24	507
P2-U	P2-P	AA 40	STEP UP C	24	517
P2-V	P2-S	AA 41	26 VOLTS 400 CPS MOTOR EXCITATION	24	505
P2-W	P2-X	AA 42	STEP DOWN C	24	504
P2-X	J44-C*	A 693	STEP DOWN C	24	504
P2-X	P2-W	AA 42	STEP DOWN C	24	504
P2-Y	P2-R	AA 39	28 VOLTS 400 CPS SLEW	24	503
P2-Z	J44-P*	A 698	MARK BUTTON N.C. TO COMPUTER	24	510
P2-A*	J44-N*	A 697	MARK BUTTON N.O. TO COMPUTER	24	509
P2-B*	J43-N	A1153	SPACECRAFT LAMP TEST	20	498
P2-C*	J47-C	A1168	TRACKER ON IND TO AGC	20	521
P2-D*	K7-1	A 960	K7 CONTROL 28 VDC HI	24	607

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
P3	27 PIN CONNECTOR (1016059-102) BLACK KEYED X				
P3-A	J47-E	A1169	OPTICS MODE SWITCH IND TO AGC	20	522
P3-B			SPARE CONTACT		
P3-C			SPARE CONTACT		
P3-D			SPARE CONTACT		
P3-E			SPARE CONTACT		
P3-F			SPARE CONTACT		
P3-G			SPARE CONTACT		
P3-H			SPARE CONTACT		
P3-J			SPARE CONTACT		
P3-K			SPARE CONTACT		
P3-L			SPARE CONTACT		
P3-M			SPARE CONTACT		
P3-N			SPARE CONTACT		
P3-P			SPARE CONTACT		
P3-R			SPARE CONTACT		
P3-S			SPARE CONTACT		
P3-T			SPARE CONTACT		
P3-U			SPARE CONTACT		
P3-V			SPARE CONTACT		
P3-W			SPARE CONTACT		
P3-X			SPARE CONTACT		
P3-Y			SPARE CONTACT		
P3-Z			SPARE CONTACT		
P3-A*			SPARE CONTACT		
P3-B*			SPARE CONTACT		
P3-C*			SPARE CONTACT		
P3-D*			SPARE CONTACT		
P4	27 PIN CONNECTOR (1016059-103) BLUE KEYED NORMAL				

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	P9	27 PIN CONNECTOR (1016059-106) GREEN KEYED NORMAL			
P9-A	P8-C*	A 965	STEPPER TENS TWO	24	546
P9-A	P9-B	AA 70	STEPPER TENS TWO	24	546
P9-B	P9-A	AA 70	STEPPER TENS TWO	24	546
P9-B	P9-C	AA 71	STEPPER TENS TWO	24	546
P9-C	P9-B	AA 71	STEPPER TENS TWO	24	547
P9-D	J8-P*	A 172	STEPPER TENS THREE	24	547
P9-D	P9-E	AA 81	STEPPER TENS THREE	24	547
P9-E	P9-F	AA 73	STEPPER TENS THREE	24	547
P9-E	P9-D	AA 81	STEPPER TENS THREE	24	547
P9-F	P9-E	AA 73	STEPPER TENS THREE	24	547
P9-F	P9-G	AA 74	STEPPER TENS THREE	24	547
P9-G	P9-F	AA 74	STEPPER TENS THREE	24	547
P9-G	P9-H	AA 75	STEPPER TENS THREE	24	547
P9-H	P9-G	AA 75	STEPPER TENS THREE	24	547
P9-H	P9-J	AA 76	STEPPER TENS THREE	24	547
P9-J	P9-H	AA 76	STEPPER TENS THREE	24	547
P9-J	P9-K	AA 77	STEPPER TENS THREE	24	547
P9-K	P9-J	AA 77	STEPPER TENS THREE	24	547
P9-K	P9-L	AA 78	STEPPER TENS THREE	24	547
P9-L	P9-K	AA 78	STEPPER TENS THREE	24	547
P9-L	P9-M	AA 79	STEPPER TENS THREE	24	547
P9-M	P9-L	AA 79	STEPPER TENS THREE	24	547
P9-M	P9-N	AA 80	STEPPER TENS THREE	24	547
P9-N	P9-M	AA 80	STEPPER TENS THREE	24	548
P9-P	J8-Q*	A 173	STEPPER TENS FOUR	24	548
P9-P	P9-R	AA 90	STEPPER TENS FOUR	24	548
P9-R	P9-S	AA 82	STEPPER TENS FOUR	24	548
P9-R	P9-P	AA 90	STEPPER TENS FOUR	24	548
P9-S	P9-R	AA 82	STEPPER TENS FOUR	24	548
P9-S	P9-T	AA 83	STEPPER TENS FOUR	24	548
P9-T	P9-S	AA 83	STEPPER TENS FOUR	24	548
P9-T	P9-U	AA 84	STEPPER TENS FOUR	24	548

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P9		27 PIN CONNECTOR (1016059-106) GREEN KEYED NORMAL			
P9-U	P9-T	AA 84	STEPPER TENS FOUR	24	548
P9-U	P9-V	AA 85	STEPPER TENS FOUR	24	548
P9-V	P9-U	AA 85	STEPPER TENS FOUR	24	548
P9-V	P9-W	AA 86	STEPPER TENS FOUR	24	548
P9-W	P9-V	AA 86	STEPPER TENS FOUR	24	548
P9-W	P9-X	AA 87	STEPPER TENS FOUR	24	548
P9-X	P9-W	AA 87	STEPPER TENS FOUR	24	548
P9-X	P9-Y	AA 88	STEPPER TENS FOUR	24	548
P9-Y	P9-X	AA 88	STEPPER TENS FOUR	24	548
P9-Y	P9-Z	AA 89	STEPPER TENS FOUR	24	548
P9-Z	P9-Y	AA 89	STEPPER TENS FOUR	24	549
P9-A*	J8-R*	A 174	STEPPER TENS FIVE	24	549
P9-A*	P9-B*	AA 91	STEPPER TENS FIVE	24	549
P9-B*	P9-A*	AA 91	STEPPER TENS FIVE	24	549
P9-C*			SPARE CONTACT		
P9-D*			SPARE CONTACT		
	P10	27 PIN CONNECTOR (1016059-107) GREEN KEYED W			
P10-A	J8-B*	A 161	STEPPER UNITS ONE	24	536
P10-A	P10-L	AA 92	STEPPER UNITS ONE	24	536
P10-B	J8-C*	A 162	STEPPER UNITS TWO	24	537
P10-B	P10-M	AA 93	STEPPER UNITS TWO	24	537
P10-C	J8-D*	A 163	STEPPER UNITS THREE	24	538
P10-C	P10-N	AA 94	STEPPER UNITS THREE	24	538
P10-D	J8-E*	A 164	STEPPER UNITS FOUR	24	539
P10-D	P10-P	AA 95	STEPPER UNITS FOUR	24	539
P10-E	J8-F*	A 165	STEPPER UNITS FIVE	24	540
P10-E	P10-R	AA 96	STEPPER UNITS FIVE	24	540
P10-F	J8-G*	A 166	STEPPER UNITS SIX	24	541

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P10		27 PIN CONNECTOR (1016059-107) GREEN KEYED W			
P10-F	P10-S	AA 97	STEPPER UNITS SIX	24	541
P10-G	J8-H*	A 167	STEPPER UNITS SEVEN	24	542
P10-G	P10-T	AA 98	STEPPER UNITS SEVEN	24	542
P10-H	J8-J*	A 168	STEPPER UNITS EIGHT	24	543
P10-H	P10-U	AA 99	STEPPER UNITS EIGHT	24	543
P10-J	J8-K*	A 169	STEPPER UNITS NINE	24	544
P10-J	P10-V	AA100	STEPPER UNITS NINE	24	544
P10-K	P10-W	AA101	STEPPER UNITS ZERO	24	535
P10-K	P11-C*	AA106	STEPPER UNITS ZERO	24	535
P10-L	P10-A	AA 92	STEPPER UNITS ONE	24	536
P10-L	P10-X	AA102	STEPPER UNITS ONE	24	536
P10-M	P10-B	AA 93	STEPPER UNITS TWO	24	537
P10-M	P10-Y	AA103	STEPPER UNITS TWO	24	537
P10-N	P10-C	AA 94	STEPPER UNITS THREE	24	538
P10-N	P10-Z	AA104	STEPPER UNITS THREE	24	538
P10-P	P10-D	AA 95	STEPPER UNITS FOUR	24	539
P10-P	P10-A*	AA105	STEPPER UNITS FOUR	24	539
P10-R	P10-E	AA 96	STEPPER UNITS FIVE	24	540
P10-R	P10-B*	AA129	STEPPER UNITS FIVE	24	540
P10-S	P10-F	AA 97	STEPPER UNITS SIX	24	541
P10-S	P10-C*	AA130	STEPPER UNITS SIX	24	541
P10-T	P10-G	AA 98	STEPPER UNITS SEVEN	24	542
P10-T	P11-A	A1063	STEPPER UNITS SEVEN	24	542
P10-U	P10-H	AA 99	STEPPER UNITS EIGHT	24	543
P10-U	P11-B	A1064	STEPPER UNITS EIGHT	24	543
P10-V	P10-J	AA100	STEPPER UNITS NINE	24	544
P10-V	P11-C	A1065	STEPPER UNITS NINE	24	544
P10-W	P10-K	AA101	STEPPER UNITS ZERO	24	535
P10-W	P11-D	A1066	STEPPER UNITS ZERO	24	535
P10-X	P10-L	AA102	STEPPER UNITS ONE	24	536
P10-X	P11-E	A1067	STEPPER UNITS ONE	24	536
P10-Y	P10-M	AA103	STEPPER UNITS TWO	24	537

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P10		27 PIN CONNECTOR (1016059-107) GREEN KEYED W			
P10-Y	P11-F	A1068	STEPPER UNITS TWO	24	537
P10-Z	P10-N	AA104	STEPPER UNITS THREE	24	538
P10-Z	P11-G	A1069	STEPPER UNITS THREE	24	538
P10-A*	P10-P	AA105	STEPPER UNITS FOUR	24	539
P10-A*	P11-H	A1070	STEPPER UNITS FOUR	24	539
P10-B*	P10-R	AA129	STEPPER UNITS FIVE	24	540
P10-B*	P11-J	A1071	STEPPER UNITS FIVE	24	540
P10-C*	P10-S	AA130	STEPPER UNITS SIX	24	541
P10-C*	P11-K	A1072	STEPPER UNITS SIX	24	541
P10-D*	P8-D*	A 966	CONT TEST ENABLE (28 VDC)	24	550
P10-D*	K8-4	A 967	CONT TEST ENABLE (28 VDC)	24	550
	P11	27 PIN CONNECTOR (1016059-108) GREEN KEYED X			
P11-A	P11-L	AA131	STEPPER UNITS SEVEN	24	542
P11-A	P10-T	A1063	STEPPER UNITS SEVEN	24	542
P11-B	P11-M	AA132	STEPPER UNITS EIGHT	24	543
P11-B	P10-U	A1064	STEPPER UNITS EIGHT	24	543
P11-C	P11-N	AA133	STEPPER UNITS NINE	24	544
P11-C	P10-V	A1065	STEPPER UNITS NINE	24	544
P11-D	P11-P	AA134	STEPPER UNITS ZERO	24	535
P11-D	P10-W	A1066	STEPPER UNITS ZERO	24	535
P11-E	P11-R	AA135	STEPPER UNITS ONE	24	536
P11-E	P10-X	A1067	STEPPER UNITS ONE	24	536
P11-F	P11-S	AA136	STEPPER UNITS TWO	24	537
P11-F	P10-Y	A1068	STEPPER UNITS TWO	24	537
P11-G	P11-T	AA137	STEPPER UNITS THREE	24	538
P11-G	P10-Z	A1069	STEPPER UNITS THREE	24	538
P11-H	P11-U	AA138	STEPPER UNITS FOUR	24	539
P11-H	P10-A*	A1070	STEPPER UNITS FOUR	24	539

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P11	27 PIN CONNECTOR (1016059-108) GREEN KEYED X				
P11-J	P11-V	AA139	STEPPER UNITS FIVE	24	540
P11-J	P10-B•	A1071	STEPPER UNITS FIVE	24	540
P11-K	P11-W	AA140	STEPPER UNITS SIX	24	541
P11-K	P10-C•	A1072	STEPPER UNITS SIX	24	541
P11-L	P11-A	AA131	STEPPER UNITS SEVEN	24	542
P11-L	P11-X	AA141	STEPPER UNITS SEVEN	24	542
P11-M	P11-B	AA132	STEPPER UNITS EIGHT	24	543
P11-M	P11-Y	AA142	STEPPER UNITS EIGHT	24	543
P11-N	P11-C	AA133	STEPPER UNITS NINE	24	544
P11-N	P11-Z	AA143	STEPPER UNITS NINE	24	544
P11-P	P11-D	AA134	STEPPER UNITS ZERO	24	535
P11-P	P11-A•	AA144	STEPPER UNITS ZERO	24	535
P11-R	P11-E	AA135	STEPPER UNITS ONE	24	536
P11-R	P11-B•	AA145	STEPPER UNITS ONE	24	536
P11-S	P11-F	AA136	STEPPER UNITS TWO	24	537
P11-T	P11-G	AA137	STEPPER UNITS THREE	24	538
P11-U	P11-H	AA138	STEPPER UNITS FOUR	24	539
P11-V	P11-J	AA139	STEPPER UNITS FIVE	24	540
P11-W	P11-K	AA140	STEPPER UNITS SIX	24	541
P11-X	P11-L	AA141	STEPPER UNITS SEVEN	24	542
P11-Y	P11-M	AA142	STEPPER UNITS EIGHT	24	543
P11-Z	P11-N	AA143	STEPPER UNITS NINE	24	544
P11-A•	P11-P	AA144	STEPPER UNITS ZERO	24	535
P11-B•	P11-R	AA145	STEPPER UNITS ONE	24	536
P11-C•	J8-A•	A 160	STEPPER UNITS ZERO	24	535
P11-C•	P10-K	AA106	STEPPER UNITS ZERO	24	535
P11-D•			SPARE CONTACT		
	R1	RESISTOR RE75G3R01 MIL-R-18546/1 (1896982-143)			

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) R1	RESISTOR RE75G3R01 MIL-R-18546/1 (1896982-143)				
R1-1	J32-D	A1129	6 VOLT 400 CPS ISS LOAD	20	381
R1-2	TB6-2C	A1135	6 VOLT 400 CPS HI	20	206
	R2	RESISTOR RE75G2R00 MIL-R-18546/1 (1896982-126)			
R2-1	J47-K	A1194	400 CPS LO BUS	20	360
R2-1	J31-D	A1127	6 VOLT 400 CPS OSS LOAD	20	360
R2-2	TB6-3E	A1136	6 VOLT 400 CPS HI	20	206
			SHIELD GROUND		
SHLD A7	E20B	A 7A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A10	E20B	A 10A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A13	E20B	A 13A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A14	E20B	A 14A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A21	E21B	A 21A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A23	E21B	A 23A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A24	E21B	A 24A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A25	E21B	A 25A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A26	E21B	A 26A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A28	E22B	A 28A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A29	E22B	A 29A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A30	E22B	A 30A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A31	E22B	A 31A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A32	E22B	A 32A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A33	E22B	A 33A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A35	E22B	A 35A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A36	E23B	A 36A	SHIELD GROUND (J2 CONNECTOR END)	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A37	E23B	A 37A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A38	E23B	A 38A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A39	E23B	A 39A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A40	E23B	A 40A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A41	E23B	A 41A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A45	E24B	A 45A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A46	E24B	A 46A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A47	E24B	A 47A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A48	E24B	A 48A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A49	E24B	A 49A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A50	E24B	A 50A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A51	E24B	A 51A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A52	E24B	A 52A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A53	E25B	A 53A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A54	E25B	A 54A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A55	E25B	A 55A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A56	E25B	A 56A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A59	E25B	A 59A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A60	E25B	A 60A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A62	E26B	A 62A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A63	E26B	A 63A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A64	E26B	A 64A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A65	E26B	A 65A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A66	E26B	A 66A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A70	E26B	A 70A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A71	E26B	A 71A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A72	E26B	A 72A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A73	E27B	A 73A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A74	E27B	A 74A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A75	E27B	A 75A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A76	E27B	A 76A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A77	E27B	A 77A	SHIELD GROUND (J4 CONNECTOR END)	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A78	E27B	A 78A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A79	E27B	A 79A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A80	E27B	A 80A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A83	E57B	A 83A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A85	E28B	A 85A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A86	E28B	A 86A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A89	E28B	A 89A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A90	E28B	A 90A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A91	E28B	A 91A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A92	E28B	A 92A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A93	E28B	A 93A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A94	E28B	A 94A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A95	E28B	A 95A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A96	E29B	A 96A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A97	E29B	A 97A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A98	E29B	A 98A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A99	E29B	A 99A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A100	E29B	A 100A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A101	E29B	A 101A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A102	E29B	A 102A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A103	E29B	A 103A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A104	E30B	A 104A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A105	E30B	A 105A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A106	E30B	A 106A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A107	E30B	A 107A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A108	E30B	A 108A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A109	E30B	A 109A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A110	E30B	A 110A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A111	E30B	A 111A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A139	E20B	A 139A	SHIELD GROUND (J7 CONNECTOR END)	22	3
SHLD A184	E91B	A 184A	SHIELD GROUND (J8 CONNECTOR END)	22	3
SHLD A187	E91B	A 187A	SHIELD GROUND (J8 CONNECTOR END)	22	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A464	E50B	A 464A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A465	E50B	A 465A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A466	E50B	A 466A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A468	E50B	A 468A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A469	E51B	A 469A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A470	E51B	A 470A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A471	J31-C	A 471A	SHLD FEEDTHRU (J31 CONNECTOR END)	22	358
SHLD A471	J36-X	A 471B	SHLD FEEDTHRU (J36 CONNECTOR END)	22	358
SHLD A472	E51B	A 472A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A473	E51B	A 473A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A476	E51B	A 476A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A478	E51B	A 478A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A483	E52B	A 483A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A484	E52B	A 484A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A485	E52B	A 485A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A486	E52B	A 486A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A487	E52B	A 487A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A488	E52B	A 488A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A489	E52B	A 489A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A490	E53B	A 490A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A491	E53B	A 491A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A492	E53B	A 492A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A495	E53B	A 495A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A496	E53B	A 496A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A497	E53B	A 497A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A498	E53B	A 498A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A499	E53B	A 499A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A504	E54B	A 504A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A505	E54B	A 505A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A506	E54B	A 506A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A507	E54B	A 507A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A508	E54B	A 508A	SHIELD GROUND (J33 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A509	E54B	A 509A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A510	E54B	A 510A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A511	E54B	A 511A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A512	E55B	A 512A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A513	E54B	A 513A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A516	E55B	A 516A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A517	E55B	A 517A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A518	E55B	A 518A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A519	E55B	A 519A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A520	E55B	A 520A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A523	E56B	A 523A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A524	E56B	A 524A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A529	E56B	A 529A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A530	E56B	A 530A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A531	E56B	A 531A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A532	E56B	A 532A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A542	E94B	A 542A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A544	E94B	A 544A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A547	E94B	A 547A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A550	E94B	A 550A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A551	E94B	A 551A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A553	E57B	A 553A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A554	E57B	A 554A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A555	E57B	A 555A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A556	E57B	A 556A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A557	E57B	A 557A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A562	E58B	A 562A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A563	E58B	A 563A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A564	E58B	A 564A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A565	E58B	A 565A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A566	E58B	A 566A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A567	E58B	A 567A	SHIELD GROUND (J36 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A568	E58B	A 568A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A569	E58B	A 569A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A570	J36-W	A 570A	SHLD FEEDTHRU (J36 CONNECTOR END)	22	440
SHLD A570	J37-C	A 570B	SHLD FEEDTHRU (J37 CONNECTOR END)	22	440
SHLD A571	E58B	A 571A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A575	E61B	A 575A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A576	E61B	A 576A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A577	E59B	A 577A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A578	E59B	A 578A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A579	E59B	A 579A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A580	E59B	A 580A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A581	E59B	A 581A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A583	E59B	A 583A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A584	E59B	A 584A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A589	E60B	A 589A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A590	E60B	A 590A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A591	E60B	A 591A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A592	E60B	A 592A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A593	E60B	A 593A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A594	E60B	A 594A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A595	E60B	A 595A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A596	E61B	A 596A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A597	E61B	A 597A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A598	E61B	A 598A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A601	E61B	A 601A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A602	E61B	A 602A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A603	E61B	A 603A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A604	E61B	A 604A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A605	E61B	A 605A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A611	E62B	A 611A	SHIELD GROUND (J39 CONNECTOR END)	22	3
SHLD A612	E62B	A 612A	SHIELD GROUND (J39 CONNECTOR END)	22	3
SHLD A630	E62B	A 630A	SHIELD GROUND (J40 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A648	E63B	A 648A	SHIELD GROUND (J41 CONNECTOR END)	22	3
SHLD A649	E63B	A 649A	SHIELD GROUND (J41 CONNECTOR END)	22	3
SHLD A650	E63B	A 650A	SHIELD GROUND (J41 CONNECTOR END)	22	3
SHLD A655	E63B	A 655A	SHIELD GROUND (J42 CONNECTOR END)	22	3
SHLD A656	E63B	A 656A	SHIELD GROUND (J42 CONNECTOR END)	22	3
SHLD A662	E65B	A 662A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A666	E65B	A 666A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A675	E65B	A 675A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A678	E66B	A 678A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A679	E66B	A 679A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A680	E66B	A 680A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A681	E66B	A 681A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A688	E63B	A 688A	SHIELD GROUND (J42 CONNECTOR END)	22	3
SHLD A701	E66B	A 701A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A702	E66B	A 702A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A709	E67B	A 709A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A710	E67B	A 710A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A711	E67B	A 711A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A712	E67B	A 712A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A767	E68B	A 767A	SHIELD GROUND (K18 END)	22	3
SHLD A768	E68B	A 768A	SHIELD GROUND (K18 END)	22	3
SHLD A769	E68B	A 769A	SHIELD GROUND (K18 END)	22	3
SHLD A798	E69B	A 798A	SHIELD GROUND (K29 END)	22	3
SHLD A810	E69B	A 810A	SHIELD GROUND (K20 END)	22	3
SHLD A836	E71B	A 836A	SHIELD GROUND (K38 END)	22	3
SHLD A838	E71B	A 838A	SHIELD GROUND (K38 END)	22	3
SHLD A841	E71B	A 841A	SHIELD GROUND (K40 END)	22	3
SHLD A842	E71B	A 842A	SHIELD GROUND (K40 END)	22	3
SHLD A843	E71B	A 843A	SHIELD GROUND (K40 END)	22	3
SHLD A845	E73B	A 845A	SHIELD GROUND (K41 END)	22	3
SHLD A850	E73B	A 850A	SHIELD GROUND (K43 END)	22	3
SHLD A855	E73B	A 855A	SHIELD GROUND (K44 END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A856	E73B	A 856A	SHIELD GROUND (K44 END)	22	3
SHLD A857	E73B	A 857A	SHIELD GROUND (K44 END)	22	3
SHLD A858	E73B	A 858A	SHIELD GROUND (K44 END)	22	3
SHLD A859	E73B	A 859A	SHIELD GROUND (K45 END)	22	3
SHLD A860	E73B	A 860A	SHIELD GROUND (K45 END)	22	3
SHLD A861	E73B	A 861A	SHIELD GROUND (K45 END)	22	3
SHLD A862	E73B	A 862A	SHIELD GROUND (K45 END)	22	3
SHLD A866	E75B	A 866A	SHIELD GROUND (K47 END)	22	3
SHLD A871	E75B	A 871A	SHIELD GROUND (K48 END)	22	3
SHLD A872	E75B	A 872A	SHIELD GROUND (K48 END)	22	3
SHLD A873	E75B	A 873A	SHIELD GROUND (K48 END)	22	3
SHLD A874	E75B	A 874A	SHIELD GROUND (K48 END)	22	3
SHLD A875	E75B	A 875A	SHIELD GROUND (K49 END)	22	3
SHLD A876	E75B	A 876A	SHIELD GROUND (K49 END)	22	3
SHLD A877	E75B	A 877A	SHIELD GROUND (K49 END)	22	3
SHLD A878	E75B	A 878A	SHIELD GROUND (K49 END)	22	3
SHLD A881	E75B	A 881A	SHIELD GROUND (K50 END)	22	3
SHLD A901	E76B	A 890A	SHIELD GROUND (K52 END)	22	3
SHLD A893	E76B	A 893A	SHIELD GROUND (K52 END)	22	3
SHLD A894	E76B	A 894A	SHIELD GROUND (K53 END)	22	3
SHLD A895	E76B	A 895A	SHIELD GROUND (K53 END)	22	3
SHLD A896	E76B	A 896A	SHIELD GROUND (K53 END)	22	3
SHLD A897	E76B	A 897A	SHIELD GROUND (K53 END)	22	3
SHLD A899	E71B	A 899A	SHIELD GROUND (K54 END)	22	3
SHLD A900	E71B	A 900A	SHIELD GROUND (K54 END)	22	3
SHLD A901	E71B	A 901A	SHIELD GROUND (K54 END)	22	3
SHLD A904	E71B	A 904A	SHIELD GROUND (K56 END)	22	3
SHLD A905	E71B	A 905A	SHIELD GROUND (K56 END)	22	3
SHLD A909	E72B	A 909A	SHIELD GROUND (K57 END)	22	3
SHLD A910	E72B	A 910A	SHIELD GROUND (K57 END)	22	3
SHLD A911	E72B	A 911A	SHIELD GROUND (K57 END)	22	3
SHLD A912	E72B	A 912A	SHIELD GROUND (K57 END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A913	E72B	A 913A	SHIELD GROUND (K58 END)	22	3
SHLD A914	E72B	A 914A	SHIELD GROUND (K58 END)	22	3
SHLD A915	E72B	A 915A	SHIELD GROUND (K58 END)	22	3
SHLD A916	E72B	A 916A	SHIELD GROUND (K58 END)	22	3
SHLD A919	E72B	A 919A	SHIELD GROUND (K59 END)	22	3
SHLD A920	E72B	A 920A	SHIELD GROUND (K59 END)	22	3
SHLD A925	E74B	A 925A	SHIELD GROUND (K61 END)	22	3
SHLD A926	E74B	A 926A	SHIELD GROUND (K61 END)	22	3
SHLD A927	E74B	A 927A	SHIELD GROUND (K61 END)	22	3
SHLD A928	E74B	A 928A	SHIELD GROUND (K61 END)	22	3
SHLD A929	E74B	A 929A	SHIELD GROUND (K62 END)	22	3
SHLD A930	E74B	A 930A	SHIELD GROUND (K62 END)	22	3
SHLD A931	E74B	A 931A	SHIELD GROUND (K62 END)	22	3
SHLD A932	E74B	A 932A	SHIELD GROUND (K62 END)	22	3
SHLD A936	E74B	A 936A	SHIELD GROUND (K63 END)	22	3
SHLD A937	E74B	A 937A	SHIELD GROUND (K63 END)	22	3
SHLD A941	E76B	A 941A	SHIELD GROUND (K65 END)	22	3
SHLD A942	E76B	A 942A	SHIELD GROUND (K65 END)	22	3
SHLD A943	E76B	A 943A	SHIELD GROUND (K66 END)	22	3
SHLD A944	E76B	A 944A	SHIELD GROUND (K66 END)	22	3
SHLD A1054	E65B	A1054A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A1055	E33B	A1055A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1056	E33B	A1056A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1057	E33B	A1057A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1107	E48B	A1107A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A1108	E48B	A1108A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A1110	E24B	A1110A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A1123	E33B	A1123A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1132	E32B	A1132A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1133	E65B	A1133A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A1134	E32B	A1134A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A1138	E51B	A1138A	SHIELD GROUND (J31 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A1139	E57B	A1139A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A1145	E68B	A1145A	SHIELD GROUND (K19 END)	22	3
SHLD A1146	E68B	A1146A	SHIELD GROUND (K19 END)	22	3
SHLD A1147	E68B	A1147A	SHIELD GROUND (K19 END)	22	3
SHLD A1148	E68B	A1148A	SHIELD GROUND (K19 END)	22	3
SHLD A1149	E68B	A1149A	SHIELD GROUND (K29 END)	22	3
SHLD A1155	E88B	A1155A	SHIELD GROUND (TB17 END)	22	3
SHLD A1156	E33B	A1156A	SHIELD GROUND (J10 END)	22	3
SHLD A1157	E62B	A1157A	SHIELD GROUND (J34 END)	22	3
SHLD A1196	E48B	A1196A	SHIELD GROUND (J27 END)	22	3
T1 ISOLATION TRANSFORMER 1 TO 1 3200 CPS (1016165)					
T1-1	E2		ISOLATION TRANSFORMER INPUT, TERM. 1		2
T1-2	E3		ISOLATION TRANSFORMER INPUT, TERM. 2		4
T1-3	E4		ISOLATION TRANSFORMER OUTPUT, TERM. 3		5
T1-4	E5		ISOLATION TRANSFORMER OUTPUT, TERM. 4		2
TB1 TERMINAL BOARD (A1 COMPONENT BOARD ASSY 1900833-011)					
TB1-1	TB6-7B	A 969	27 VDC RLP GROUND (A1CR1 ANODE)	20	355
TB1-1	TB1-3	A1AA2	27 VDC RLP GROUND (A1CR1 ANODE)	20	355
TB1-2	J9-HH	A 225	CONT TEST SOURCE VOLTAGE (A1CR1 CATHODE)	24	550
TB1-2	K8-4	A 758	CONT TEST ENABLE (28 VDC)-(A1CR1 CATHODE)	20	550
TB1-3	TB1-1	A1AA2	27 VDC RLP GROUND (A1CR2 ANODE)	20	355
TB1-3	TB1-5	A1AA3	27 VDC RLP GROUND (A1CR2 ANODE)	20	355
TB1-4	K2-X01	A 732	AGE 28 VDC VARIABLE POWER HI (A1CR2 CATHODE)	20	529
TB1-5	TB1-3	A1AA3	27 VDC RLP GROUND (A1CR3 ANODE)	20	355

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB1 TERMINAL BOARD (A1 COMPONENT BOARD ASSY 1900833-011)					
TB1-5	TB1-7	A1AA4	27 VDC RLP GROUND (A1CR3 ANODE)	20	355
TB1-6	K3-5	A 736	ISS STANDBY ON CONTROL (A1CR3 CATHODE)	20	527
TB1-7	TB1-5	A1AA4	27 VDC RLP GROUND (A1CR4 ANODE)	20	355
TB1-7	TB1-9	A1AA5	27 VDC RLP GROUND (A1CR4 ANODE)	20	355
TB1-8	K4-5	A 741	OPTICS POWER ON CONTROL (A1CR4 CATHODE)	24	532
TB1-9	TB1-7	A1AA5	27 VDC RLP GROUND (A1CR5 ANODE)	20	355
TB1-10	K5-5	A 745	AGC POWER ON CONTROL (A1CR5 CATHODE)	24	531
TB1-11			SPARE TERMINAL		
TB1-12			SPARE TERMINAL		
TB1-13			SPARE TERMINAL		
TB1-14			SPARE TERMINAL		
TB1-15			SPARE TERMINAL		
TB1-16			SPARE TERMINAL		
TB1-17			A1CR9 ANODE - SPARE		
TB1-18			A1CR9 CATHODE - SPARE		
TB1-19	K6-11	A 753	AGE POWER TRANSFER LO (A1CR10 ANODE)	20	534
TB1-20	K6-4	A 748	AGE POWER TRANSFER LINE B (A1CR10 CATHODE)	20	533
TB1-21	TB1-23	A1AA1	JUNCTION A1R1 AND A1C1	20	610
TB1-22	P1-D	A 953	PROCEED VOLTAGE TO A1R1	24	555
TB1-23	TB1-21	A1AA1	JUNCTION A1R1 AND A1C1	20	610
TB1-24	P1-W	A 959	OFF-NORM CONT (NOT HOME POS) TO A1C1	24	576
TB2 TERMINAL BOARD POWER (1015918-115)					
TB2-1	TB2-2		JUMPER STRAP		131
TB2-1	K1-A01	A 726	ISS OPERATE POWER LINE B HI	12	131
TB2-2	TB2-1		JUMPER STRAP		131
TB2-2	TB2-3		JUMPER STRAP		131
TB2-2	J21-D	A 304	+28 VDC IMU BUS B	12	131
TB2-3	TB2-2		JUMPER STRAP		131

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB2	TERMINAL BOARD POWER (1015918-115)				
					131
TB2-3	TB2-4		JUMPER STRAP	12	131
TB2-3	J21-C	A 303	+28 VDC IMU BUS B		131
TB2-4	TB2-3		JUMPER STRAP		131
TB2-4	TB2-5		JUMPER STRAP	12	131
TB2-4	J46-J	A 717	+28 VDC IMU BUS B		131
TB2-5	TB2-4		JUMPER STRAP	12	131
TB2-5	J46-I	A 716	+28 VDC IMU BUS B		130
TB2-6	TB2-7		JUMPER STRAP	12	130
TB2-6	K1-B01	A 728	ISS OPERATE POWER LINE A HI		130
TB2-7	TB2-6		JUMPER STRAP		130
TB2-7	TB2-8		JUMPER STRAP	12	130
TB2-7	J40-J	A 620	+28 VDC IMU BUS A		130
TB2-8	TB2-7		JUMPER STRAP		130
TB2-8	TB2-9		JUMPER STRAP	12	130
TB2-8	J40-I	A 619	+28 VDC IMU BUS A		130
TB2-9	TB2-10		JUMPER STRAP		130
TB2-9	TB2-8		JUMPER STRAP	12	130
TB2-9	J21-A	A 301	+28 VDC IMU BUS A		130
TB2-10	TB2-9		JUMPER STRAP	12	130
TB2-10	J21-B	A 302	+28 VDC IMU BUS A		
TB3	TERMINAL BOARD POWER (1015918-115)				
					351
TB3-1	TB3-2		JUMPER STRAP	16	351
TB3-1	K6-9	A 752	+28 VDC OPTICS BUS B		351
TB3-2	TB3-1		JUMPER STRAP		351
TB3-2	TB3-3		JUMPER STRAP	14	351
TB3-2	J30-D	A 454	+28 VDC OPTICS BUS B		351
TB3-3	TB3-2		JUMPER STRAP		351
TB3-3	TB3-4		JUMPER STRAP		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB3	TERMINAL BOARD POWER (1015918-115)				
TB3-3	J30-C	A 453	+28 VDC OPTICS BUS B	14	351
TB3-4	TB3-3		JUMPER STRAP		351
TB3-4	TB3-5		JUMPER STRAP		351
TB3-4	J46-L	A 719	+28 VDC OPTICS BUS B	14	351
TB3-5	TB3-4		JUMPER STRAP		351
TB3-5	J46-K	A 718	+28 VDC OPTICS BUS B	14	351
TB3-6	TB3-7		JUMPER STRAP		1
TB3-6	K6-8	A 751	+28 VDC OPTICS BUS A	16	1
TB3-7	TB3-6		JUMPER STRAP		1
TB3-7	TB3-8		JUMPER STRAP		1
TB3-7	J40-L	A 622	+28 VDC OPTICS BUS A	14	1
TB3-8	TB3-7		JUMPER STRAP		1
TB3-8	TB3-9		JUMPER STRAP		1
TB3-8	J40-K	A 621	+28 VDC OPTICS BUS A	14	1
TB3-9	TB3-10		JUMPER STRAP		1
TB3-9	TB3-8		JUMPER STRAP		1
TB3-9	J30-A	A 451	+28 VDC OPTICS BUS A	14	1
TB3-10	TB3-9		JUMPER STRAP		1
TB3-10	J30-B	A 452	+28 VDC OPTICS BUS A	14	1
TB4	TERMINAL BOARD POWER (1015918-115)				
					137
TB4-1	TB4-2		JUMPER STRAP	16	137
TB4-1	K6-13	A 754	28 VDC AGC B PWR HI		137
TB4-2	TB4-1		JUMPER STRAP		137
TB4-2	TB4-3		JUMPER STRAP	12	137
TB4-2	J21-P	A 269	+28 VDC AGC BUS B		137
TB4-3	TB4-2		JUMPER STRAP		137
TB4-3	TB4-4		JUMPER STRAP		137
TB4-4	TB4-3		JUMPER STRAP		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB4	TERMINAL BOARD POWER (1015918-115)				
					137
TB4-4	TB4-5		JUMPER STRAP	14	137
TB4-4	J46-N	A 721	+28 VDC AGC BUS B		137
TB4-5	TB4-4		JUMPER STRAP	14	137
TB4-5	J46-M	A 720	+28 VDC AGC BUS B		132
TB4-6	TB4-7		JUMPER STRAP	16	132
TB4-6	K6-14	A 755	28 VDC AGC POWER LINE A HI		132
TB4-7	TB4-6		JUMPER STRAP		132
TB4-7	TB4-8		JUMPER STRAP	14	132
TB4-7	J40-N	A 624	+28 VDC AGC BUS A		132
TB4-8	TB4-7		JUMPER STRAP		132
TB4-8	TB4-9		JUMPER STRAP	14	132
TB4-8	J40-M	A 623	+28 VDC AGC BUS A		132
TB4-9	TB4-10		JUMPER STRAP		132
TB4-9	TB4-8		JUMPER STRAP		132
TB4-10	TB4-9		JUMPER STRAP	12	132
TB4-10	J21-H	A 267	+28 VDC AGC BUS A		
TB5	TERMINAL BOARD POWER (1015918-110)				
					134
TB5-1	TB5-2		JUMPER STRAP	16	134
TB5-1	K6-6	A 749	28 VDC STANDBY BUS B		134
TB5-2	TB5-1		JUMPER STRAP		134
TB5-2	TB5-3		JUMPER STRAP		134
TB5-3	TB5-2		JUMPER STRAP	16	134
TB5-3	J21-L	A 309	+28 VDC STANDBY BUS B	16	134
TB5-3	J46-D	A 714	+28 VDC STBY BUS B		133
TB5-4	TB5-5		JUMPER STRAP	16	133
TB5-4	J21-K	A 308	+28 VDC STANDBY BUS A	16	133
TB5-4	J40-D	A 617	+28 VDC STBY BUS A		133
TB5-5	TB5-4		JUMPER STRAP		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB5	TERMINAL BOARD POWER (1015918-110)				
					133
TB5-5	TB5-6		JUMPER STRAP		133
TB5-6	TB5-5		JUMPER STRAP	16	133
TB5-6	K6-7	A 750	28 VDC STANDBY BUS A		524
TB5-7	TB5-8		JUMPER STRAP	20	524
TB5-7	XF20-2	A 128	28 VDC AGE POWER REMOTE SENSE HI	16	524
TB5-7	XF1-2	A 977	28 VDC AGE POWER HI		524
TB5-8	TB5-7		JUMPER STRAP		524
TB5-8	TB5-9		JUMPER STRAP	12	524
TB5-8	XF2-2	A 978	28 VDC AGE POWER HI	20	524
TB5-8	J7-L	A1187	28 VDC AGE HI (REMOTE SENSE)		524
TB5-9	TB5-10		JUMPER STRAP		524
TB5-9	TB5-8		JUMPER STRAP	8	524
TB5-9	J6-C	A 113	28 VDC AGE POWER HI	16	524
TB5-9	XF3-2	A 979	28 VDC AGE POWER HI		524
TB5-10	TB5-9		JUMPER STRAP	16	524
TB5-10	J6-F	A 116	28 VDC AGE POWER REMOTE SENSE HI	16	524
TB5-10	XF4-2	A 980	28 VDC AGE POWER HI		
TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					206
TB6-1A	TB6-1B		INTERNAL BUS	24	206
TB6-1A	J23-R*	A 347R	LAMP VOLTAGE		206
TB6-1B	TB6-1A		INTERNAL BUS		206
TB6-1B	TB6-1C		INTERNAL BUS	22	206
TB6-1B	J38-LL	A 603R	6 VOLT 400 CPS LAMP POWER HI		206
TB6-1C	TB6-1B		INTERNAL BUS		206
TB6-1C	TB6-1D		INTERNAL BUS	22	206
TB6-1C	J32-LL	A 497R	6 VOLT 400 CPS LAMP POWER HI		206
TB6-1D	TB6-1C		INTERNAL BUS		206
TB6-1D	TB6-1E		INTERNAL BUS		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-10B	TB6-10C		INTERNAL BUS		188
TB6-10B	TB6-10A		INTERNAL BUS		188
TB6-10B	J35-H	A 277L	SCT SHAFT MOTOR CONTROL WINDING	20	188
TB6-10C	TB6-10D		INTERNAL BUS		188
TB6-10C	TB6-10B		INTERNAL BUS		188
TB6-10C	J23-C*	A 342L	SCT SHAFT MOTOR CONTROL WINDING	20	188
TB6-10D	TB6-10E		INTERNAL BUS		188
TB6-10D	TB6-10C		INTERNAL BUS		188
TB6-10D	J5-B*	A 94L	SCT SHAFT MTR CONTR WIND	24	188
TB6-10E	TB6-10F		INTERNAL BUS		188
TB6-10E	TB6-10D		INTERNAL BUS		188
TB6-10F	TB6-10E		INTERNAL BUS		188
TB6-11A	TB6-11B		INTERNAL BUS		187
TB6-11B	TB6-11C		INTERNAL BUS		187
TB6-11B	TB6-11A		INTERNAL BUS		187
TB6-11B	K26-7	A1158	SCT MOTOR CONTROL CT (+28 VDC HI)	20	187
TB6-11C	TB6-11D		INTERNAL BUS		187
TB6-11C	TB6-11B		INTERNAL BUS		187
TB6-11C	J23-B*	A 342R	SCT MOTOR CONTROL CT (+28 VDC HI)	20	187
TB6-11D	TB6-11E		INTERNAL BUS		187
TB6-11D	TB6-11C		INTERNAL BUS		187
TB6-11E	TB6-11F		INTERNAL BUS		187
TB6-11E	TB6-11D		INTERNAL BUS		187
TB6-11F	TB6-11E		INTERNAL BUS		187
TB6-12A	TB6-12B		INTERNAL BUS		194
TB6-12B	TB6-12C		INTERNAL BUS		194
TB6-12B	TB6-12A		INTERNAL BUS		194
TB6-12B	J35-S	A 278Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
TB6-12C	TB6-12D		INTERNAL BUS		194
TB6-12C	TB6-12B		INTERNAL BUS		194
TB6-12C	J23-G	A 334Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
TB6-12D	TB6-12E		INTERNAL BUS		194

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-12D	TB6-12C		INTERNAL BUS		194
TB6-12D	J5-U	A 91L	SCT TRUNN MTR CONTR WIND	24	194
TB6-12E	TB6-12F		INTERNAL BUS		194
TB6-12E	TB6-12D		INTERNAL BUS		194
TB6-12F	TB6-12E		INTERNAL BUS		194
TB6-13A	TB6-13B		INTERNAL BUS		192
TB6-13B	TB6-13C		INTERNAL BUS		192
TB6-13B	TB6-13A		INTERNAL BUS		192
TB6-13B	J35-T	A 278L	OPTICS +28 VDC	24	192
TB6-13C	TB6-13D		INTERNAL BUS		192
TB6-13C	TB6-13B		INTERNAL BUS		192
TB6-13C	J23-F	A 334L	SCT MOTOR CONTROL CT (+28 VDC HI)	24	192
TB6-13D	TB6-13E		INTERNAL BUS		192
TB6-13D	TB6-13C		INTERNAL BUS		192
TB6-13E	TB6-13F		INTERNAL BUS		192
TB6-13E	TB6-13D		INTERNAL BUS		192
TB6-13F	TB6-13E		INTERNAL BUS		192
TB6-14A	TB6-14B		INTERNAL BUS		190
TB6-14B	TB6-14C		INTERNAL BUS		190
TB6-14B	TB6-14A		INTERNAL BUS		190
TB6-14B	J35-R	A 278R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
TB6-14C	TB6-14D		INTERNAL BUS		190
TB6-14C	TB6-14B		INTERNAL BUS		190
TB6-14C	J23-E	A 334R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
TB6-14D	TB6-14E		INTERNAL BUS		190
TB6-14D	TB6-14C		INTERNAL BUS		190
TB6-14D	J5-T	A 91R	SCT TRUNN MTR CONTR WIND	24	190
TB6-14E	TB6-14F		INTERNAL BUS		190
TB6-14E	TB6-14D		INTERNAL BUS		190
TB6-14F	TB6-14E		INTERNAL BUS		190
TB6-15A	TB6-15B		INTERNAL BUS		612
TB6-15B	TB6-15C		INTERNAL BUS		612

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-15B	TB6-15A		INTERNAL BUS		612
TB6-15C	TB6-15D		INTERNAL BUS		612
TB6-15C	TB6-15B		INTERNAL BUS		612
TB6-15D	TB6-15E		INTERNAL BUS		612
TB6-15D	TB6-15C		INTERNAL BUS		612
TB6-15E	TB6-15F		INTERNAL BUS		612
TB6-15E	TB6-15D		INTERNAL BUS		612
TB6-15F	TB6-15E		INTERNAL BUS		612
TB6-16A	TB6-16B		INTERNAL BUS		187
TB6-16A	J35-K	A 277R	OPTICS +28 VDC	20	187
TB6-16B	TB6-16C		INTERNAL BUS		187
TB6-16B	TB6-16A		INTERNAL BUS		187
TB6-16B	K26-S	A1159	OPTICS +28 VDC	20	187
TB6-16C	TB6-16D		INTERNAL BUS		187
TB6-16C	TB6-16B		INTERNAL BUS		187
TB6-16D	TB6-16E		INTERNAL BUS		187
TB6-16D	TB6-16C		INTERNAL BUS		187
TB6-16E	TB6-16F		INTERNAL BUS		187
TB6-16E	TB6-16D		INTERNAL BUS		187
TB6-16F	TB6-16E		INTERNAL BUS		187
TB6-17A	TB6-17B		INTERNAL BUS		613
TB6-17B	TB6-17C		INTERNAL BUS		613
TB6-17B	TB6-17A		INTERNAL BUS		613
TB6-17C	TB6-17D		INTERNAL BUS		613
TB6-17C	TB6-17B		INTERNAL BUS		613
TB6-17D	TB6-17E		INTERNAL BUS		613
TB6-17D	TB6-17C		INTERNAL BUS		613
TB6-17E	TB6-17F		INTERNAL BUS		613
TB6-17E	TB6-17D		INTERNAL BUS		613
TB6-17F	TB6-17E		INTERNAL BUS		613
TB6-18A	TB6-18B		INTERNAL BUS		614
TB6-18B	TB6-18C		INTERNAL BUS		614

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-18B	TB6-18A		INTERNAL BUS		614
TB6-18C	TB6-18D		INTERNAL BUS		614
TB6-18C	TB6-18B		INTERNAL BUS		614
TB6-18D	TB6-18E		INTERNAL BUS		614
TB6-18D	TB6-18C		INTERNAL BUS		614
TB6-18E	TB6-18F		INTERNAL BUS		614
TB6-18E	TB6-18D		INTERNAL BUS		614
TB6-18F	TB6-18E		INTERNAL BUS		614
TB6-19A	TB6-19B		INTERNAL BUS		615
TB6-19B	TB6-19C		INTERNAL BUS		615
TB6-19B	TB6-19A		INTERNAL BUS		615
TB6-19C	TB6-19D		INTERNAL BUS		615
TB6-19C	TB6-19B		INTERNAL BUS		615
TB6-19D	TB6-19E		INTERNAL BUS		615
TB6-19D	TB6-19C		INTERNAL BUS		615
TB6-19E	TB6-19F		INTERNAL BUS		615
TB6-19E	TB6-19D		INTERNAL BUS		615
TB6-19F	TB6-19E		INTERNAL BUS		615
TB6-20A	TB6-20B		INTERNAL BUS		616
TB6-20B	TB6-20C		INTERNAL BUS		616
TB6-20B	TB6-20A		INTERNAL BUS		616
TB6-20C	TB6-20D		INTERNAL BUS		616
TB6-20C	TB6-20B		INTERNAL BUS		616
TB6-20D	TB6-20E		INTERNAL BUS		616
TB6-20D	TB6-20C		INTERNAL BUS		616
TB6-20E	TB6-20F		INTERNAL BUS		616
TB6-20E	TB6-20D		INTERNAL BUS		616
TB6-20F	TB6-20E		INTERNAL BUS		616

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB7-1A	TB7-1B		INTERNAL BUS		617
TB7-1B	TB7-1A		INTERNAL BUS		617
TB7-1B	TB7-1C		INTERNAL BUS		617
TB7-1C	TB7-1B		INTERNAL BUS		617
TB7-1C	TB7-1D		INTERNAL BUS		617
TB7-1D	TB7-1C		INTERNAL BUS		617
TB7-1D	TB7-1E		INTERNAL BUS		617
TB7-1E	TB7-1D		INTERNAL BUS		617
TB7-1E	TB7-1F		INTERNAL BUS		617
TB7-1F	TB7-1E		INTERNAL BUS		617
TB7-2A	TB7-2B		INTERNAL BUS		618
TB7-2B	TB7-2A		INTERNAL BUS		618
TB7-2B	TB7-2C		INTERNAL BUS		618
TB7-2C	TB7-2B		INTERNAL BUS		618
TB7-2C	TB7-2D		INTERNAL BUS		618
TB7-2D	TB7-2C		INTERNAL BUS		618
TB7-2D	TB7-2E		INTERNAL BUS		618
TB7-2E	TB7-2D		INTERNAL BUS		618
TB7-2E	TB7-2F		INTERNAL BUS		618
TB7-2F	TB7-2E		INTERNAL BUS		618
TB7-3A	TB7-3B		INTERNAL BUS		199
TB7-3A	J24-Y*	A 370L	SHAFT CDU 1/2X SINE HI P1	24	199
TB7-3B	TB7-3A		INTERNAL BUS		199
TB7-3B	TB7-3C		INTERNAL BUS		199
TB7-3B	J23-J*	A 345R	SCT 1/2 X SHAFT RSVR P3	24	199
TB7-3C	TB7-3B		INTERNAL BUS		199
TB7-3C	TB7-3D		INTERNAL BUS		199
TB7-3C	J41-C*	A 648R	SHAFT CDU 1/2X SIN HI	24	199
TB7-3D	TB7-3C		INTERNAL BUS		199
TB7-3D	TB7-3E		INTERNAL BUS		199
TB7-3D	J37-B*	A 576R	SHAFT CDU 1/2X SIN HI	24	199
TB7-3E	TB7-3D		INTERNAL BUS		199

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB7		TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB7-3E	TB7-3F		INTERNAL BUS		199
TB7-3F	TB7-3E		INTERNAL BUS		199
TB7-4A	TB7-4B		INTERNAL BUS		201
TB7-4A	J24-Z*	A 370R	SHAFT CDU 1/2X SINE LO P3	24	201
TB7-4B	TB7-4A		INTERNAL BUS		201
TB7-4B	TB7-4C		INTERNAL BUS		201
TB7-4B	J23-K*	A 345L	SCT 1/2 X SHAFT RSVR P1	24	201
TB7-4C	TB7-4B		INTERNAL BUS		201
TB7-4C	TB7-4D		INTERNAL BUS		201
TB7-4C	J41-D*	A 648L	SHAFT CDU 1/2X SIN LO	24	201
TB7-4D	TB7-4C		INTERNAL BUS		201
TB7-4D	TB7-4E		INTERNAL BUS		201
TB7-4D	J37-C*	A 576L	SHAFT CDU 1/2X SIN LO	24	201
TB7-4E	TB7-4D		INTERNAL BUS		201
TB7-4E	TB7-4F		INTERNAL BUS		201
TB7-4F	TB7-4E		INTERNAL BUS		201
TB7-5A	TB7-5B		INTERNAL BUS		224
TB7-5A	J24-E*	A 362R	TRUNNION CDU 1/4X COSINE HI	24	224
TB7-5B	TB7-5A		INTERNAL BUS		224
TB7-5B	TB7-5C		INTERNAL BUS		224
TB7-5B	J31-G*	A 462R	TRUNNION CDU 1/4X COS HI	24	224
TB7-5C	TB7-5B		INTERNAL BUS		224
TB7-5C	TB7-5D		INTERNAL BUS		224
TB7-5C	J41-N*	A 650R	TRUNNION CDU 1/4X COS HI	24	224
TB7-5D	TB7-5C		INTERNAL BUS		224
TB7-5D	TB7-5E		INTERNAL BUS		224
TB7-5E	TB7-5D		INTERNAL BUS		224
TB7-5E	TB7-5F		INTERNAL BUS		224
TB7-5F	TB7-5E		INTERNAL BUS		224
TB7-6A	TB7-6B		INTERNAL BUS		226
TB7-6A	J24-F*	A 362L	TRUNNION CDU 1/4X COSINE LO	24	226
TB7-6B	TB7-6A		INTERNAL BUS		226

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB7		TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB7-6B	TB7-6C		INTERNAL BUS		226
TB7-6B	J31-H*	A 462L	TRUNNION CDU 1/4X COS LO	24	226
TB7-6C	TB7-6B		INTERNAL BUS		226
TB7-6C	TB7-6D		INTERNAL BUS		226
TB7-6C	J41-P*	A 650L	TRUNNION CDU 1/4X COS LO	24	226
TB7-6D	TB7-6C		INTERNAL BUS		226
TB7-6D	TB7-6E		INTERNAL BUS		226
TB7-6E	TB7-6D		INTERNAL BUS		226
TB7-6E	TB7-6F		INTERNAL BUS		226
TB7-6F	TB7-6E		INTERNAL BUS		619
TB7-7A	TB7-7B		INTERNAL BUS		619
TB7-7B	TB7-7A		INTERNAL BUS		619
TB7-7B	TB7-7C		INTERNAL BUS		619
TB7-7C	TB7-7B		INTERNAL BUS		619
TB7-7C	TB7-7D		INTERNAL BUS		619
TB7-7D	TB7-7C		INTERNAL BUS		619
TB7-7D	TB7-7E		INTERNAL BUS		619
TB7-7E	TB7-7D		INTERNAL BUS		619
TB7-7E	TB7-7F		INTERNAL BUS		619
TB7-7F	TB7-7E		INTERNAL BUS		619
TB7-8A	TB7-8B		INTERNAL BUS		525
TB7-8B	TB7-8A		INTERNAL BUS		525
TB7-8B	TB7-8C		INTERNAL BUS		525
TB7-8C	TB7-8B		INTERNAL BUS		525
TB7-8C	TB7-8D		INTERNAL BUS		525
TB7-8C	XF19-2	A1099	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-8D	TB7-8C		INTERNAL BUS		525
TB7-8D	TB7-8E		INTERNAL BUS		525
TB7-8D	K54-16	A1085	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-8E	TB7-8D		INTERNAL BUS		525
TB7-8E	TB7-8F		INTERNAL BUS		525
TB7-8E	K42-19	A1086	27 VDC RELAY AND LAMP POWER HI	20	525

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB7		TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB7-8F	TB7-8E		INTERNAL BUS		525
TB7-8F	TB7-11F	AA148	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-9A	TB7-9B		INTERNAL BUS		80
TB7-9B	TB7-9A		INTERNAL BUS		80
TB7-9B	TB7-9C		INTERNAL BUS		80
TB7-9B	J26-U	A 401R	DUCOSYN EXCITATION FEEDBACK HI	20	80
TB7-9C	TB7-9B		INTERNAL BUS		80
TB7-9C	TB7-9D		INTERNAL BUS		80
TB7-9C	J11-N	A 255R	3200 CPS 2 V FDBK HI	20	80
TB7-9D	TB7-9C		INTERNAL BUS		80
TB7-9D	TB7-9E		INTERNAL BUS		80
TB7-9D	J3-JJ	A 60R	3200 CPS 2V FDBK HI	20	80
TB7-9E	TB7-9D		INTERNAL BUS		80
TB7-9E	TB7-9F		INTERNAL BUS		80
TB7-9F	TB7-9E		INTERNAL BUS		80
TB7-10A	TB7-10B		INTERNAL BUS		83
TB7-10B	TB7-10C		INTERNAL BUS		83
TB7-10B	TB7-10A		INTERNAL BUS		83
TB7-10B	J26-V	A 401L	DUCOSYN EXCITATION FEEDBACK LO	20	83
TB7-10C	TB7-10D		INTERNAL BUS		83
TB7-10C	TB7-10B		INTERNAL BUS		83
TB7-10C	J11-P	A 255L	3200 CPS 2 V FDBK LO	20	83
TB7-10D	TB7-10E		INTERNAL BUS		83
TB7-10D	TB7-10C		INTERNAL BUS		83
TB7-10D	J3-KK	A 60L	3200 CPS 2V FDBK LO	20	83
TB7-10E	TB7-10F		INTERNAL BUS		83
TB7-10E	TB7-10D		INTERNAL BUS		83
TB7-10F	TB7-10E		INTERNAL BUS		525
TB7-11A	TB7-11B		INTERNAL BUS		525
TB7-11A	TB7-12A	AA110	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-11B	TB7-11C		INTERNAL BUS		525
TB7-11B	TB7-11A		INTERNAL BUS		525

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-11C	TB7-11D		INTERNAL BUS		525
TB7-11C	TB7-11B		INTERNAL BUS		525
TB7-11D	TB7-11E		INTERNAL BUS		525
TB7-11D	TB7-11C		INTERNAL BUS		525
TB7-11E	TB7-11F		INTERNAL BUS		525
TB7-11E	TB7-11D		INTERNAL BUS		525
TB7-11E	XF19-2	A1098	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-11F	TB7-11E		INTERNAL BUS		525
TB7-11F	TB7-8F	AA148	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-12A	TB7-12B		INTERNAL BUS		525
TB7-12A	TB7-11A	AA110	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-12B	TB7-12C		INTERNAL BUS		525
TB7-12B	TB7-12A		INTERNAL BUS		525
TB7-12B	P1-X	A 958	27 VDC RELAY AND LAMP POWER HI	24	525
TB7-12C	TB7-12D		INTERNAL BUS		525
TB7-12C	TB7-12B		INTERNAL BUS		525
TB7-12D	TB7-12E		INTERNAL BUS		525
TB7-12D	TB7-12C		INTERNAL BUS		525
TB7-12D	K17-2	A 763	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-12E	TB7-12F		INTERNAL BUS		525
TB7-12E	TB7-12D		INTERNAL BUS		525
TB7-12E	K6-3	A 747	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-12F	TB7-12E		INTERNAL BUS		525
TB7-12F	K2-12	A1097	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-13A	TB7-13B		INTERNAL BUS		355
TB7-13A	TB7-14A	AA123	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-13B	TB7-13C		INTERNAL BUS		355
TB7-13B	TB7-13A		INTERNAL BUS		355
TB7-13B	K29-11	A 800	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-13C	TB7-13D		INTERNAL BUS		355
TB7-13C	TB7-13B		INTERNAL BUS		355
TB7-13C	K18-11	A 771	27 VDC RELAY AND LAMP POWER LO	20	355

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-13D	TB7-13E		INTERNAL BUS		355
TB7-13D	TB7-13C		INTERNAL BUS		355
TB7-13D	K19-2	A 775	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-13E	TB7-13F		INTERNAL BUS		355
TB7-13E	TB7-13D		INTERNAL BUS		355
TB7-13E	K20-11	A 779	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-13F	TB7-13E		INTERNAL BUS		355
TB7-13F	J41-N	A 645	GSS INTERLOCK OUT		355
TB7-14A	TB7-14B		INTERNAL BUS		355
TB7-14A	TB7-13A	AA123	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-14B	TB7-14C		INTERNAL BUS		355
TB7-14B	TB7-14A		INTERNAL BUS		355
TB7-14B	K27-11	A 792	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-14C	TB7-14D		INTERNAL BUS		355
TB7-14C	TB7-14B		INTERNAL BUS		355
TB7-14C	K28-11	A 796	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-14D	TB7-14E		INTERNAL BUS		355
TB7-14D	TB7-14C		INTERNAL BUS		355
TB7-14D	J30-L	A1189	27 VDC RLP LO	20	355
TB7-14E	TB7-14F		INTERNAL BUS		355
TB7-14E	TB7-14D		INTERNAL BUS		355
TB7-14F	TB7-14E		INTERNAL BUS		355
TB7-14F	TB7-15F	AA124	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-15A	TB7-15B		INTERNAL BUS		355
TB7-15A	TB7-16A	AA111	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-15B	TB7-15C		INTERNAL BUS		355
TB7-15B	TB7-15A		INTERNAL BUS		355
TB7-15B	TB6-7A	A 970	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-15C	TB7-15D		INTERNAL BUS		355
TB7-15C	TB7-15B		INTERNAL BUS		355
TB7-15C	TB12-1	A 971	27 VDC RELAY AND LAMP POWER GROUND	20	355
TB7-15D	TB7-15E		INTERNAL BUS		355

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-15D	TB7-15C		INTERNAL BUS		355
TB7-15D	K25-2	A 789	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-15E	TB7-15F		INTERNAL BUS		355
TB7-15E	TB7-15D		INTERNAL BUS		355
TB7-15E	J7-D	A1084	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-15F	TB7-15E		INTERNAL BUS		355
TB7-15F	TB7-14F	AA124	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-16A	TB7-16B		INTERNAL BUS		355
TB7-16A	TB7-15A	AA111	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-16B	TB7-16C		INTERNAL BUS		355
TB7-16B	TB7-16A		INTERNAL BUS		355
TB7-16B	P1-B	A 951	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-16C	TB7-16D		INTERNAL BUS		355
TB7-16C	TB7-16B		INTERNAL BUS		355
TB7-16C	K67-2	A 947	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-16D	TB7-16E		INTERNAL BUS		355
TB7-16D	TB7-16C		INTERNAL BUS		355
TB7-16D	K52-2	A 886	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-16E	TB7-16F		INTERNAL BUS		355
TB7-16E	TB7-16D		INTERNAL BUS		355
TB7-16E	J7-BB	A 146	27 VDC RELAY AND LAMP PWR. LO	20	355
TB7-16F	TB7-16E		INTERNAL BUS		355
TB7-16F	TB7-17F	AA112	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-17A	TB7-17B		INTERNAL BUS		355
TB7-17A	TB7-18A	AA113	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-17B	TB7-17C		INTERNAL BUS		355
TB7-17B	TB7-17A		INTERNAL BUS		355
TB7-17B	K61-2	A 924	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-17C	TB7-17D		INTERNAL BUS		355
TB7-17C	TB7-17B		INTERNAL BUS		355
TB7-17C	K63-2	A 935	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-17D	TB7-17E		INTERNAL BUS		355

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-17D	TB7-17C		INTERNAL BUS		355
TB7-17D	K48-2	A 869	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-17E	TB7-17F		INTERNAL BUS		355
TB7-17E	TB7-17D		INTERNAL BUS		355
TB7-17E	K65-2	A 940	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-17F	TB7-17E		INTERNAL BUS		355
TB7-17F	TB7-16F	AA112	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-18A	TB7-18B		INTERNAL BUS		355
TB7-18A	TB7-17A	AA113	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-18B	TB7-18C		INTERNAL BUS		355
TB7-18B	TB7-18A		INTERNAL BUS		355
TB7-18B	K56-2	A 903	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-18C	TB7-18D		INTERNAL BUS		355
TB7-18C	TB7-18B		INTERNAL BUS		355
TB7-18C	K57-2	A 907	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-18D	TB7-18E		INTERNAL BUS		355
TB7-18D	TB7-18C		INTERNAL BUS		355
TB7-18D	K60-2	A 921	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-18E	TB7-18F		INTERNAL BUS		355
TB7-18E	TB7-18D		INTERNAL BUS		355
TB7-18E	K44-2	A 853	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-18F	TB7-18E		INTERNAL BUS		355
TB7-18F	TB7-19F	AA114	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19A	TB7-19B		INTERNAL BUS		355
TB7-19A	TB7-20A	AA115	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19B	TB7-19C		INTERNAL BUS		355
TB7-19B	TB7-19A		INTERNAL BUS		355
TB7-19B	K41-2	A 844	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19C	TB7-19D		INTERNAL BUS		355
TB7-19C	TB7-19B		INTERNAL BUS		355
TB7-19C	K40-2	A 840	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19D	TB7-19E		INTERNAL BUS		355

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-19D	TB7-19C		INTERNAL BUS		355
TB7-19D	K55-2	A 902	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19E	TB7-19F		INTERNAL BUS		355
TB7-19E	TB7-19D		INTERNAL BUS		355
TB7-19E	K54-2	A 898	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19F	TB7-19E		INTERNAL BUS		355
TB7-19F	TB7-18F	AA114	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-20A	TB7-20B		INTERNAL BUS		355
TB7-20A	TB7-19A	AA115	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-20B	TB7-20C		INTERNAL BUS		355
TB7-20B	TB7-20A		INTERNAL BUS		355
TB7-20C	TB7-20D		INTERNAL BUS		355
TB7-20C	TB7-20B		INTERNAL BUS		355
TB7-20D	TB7-20E		INTERNAL BUS		355
TB7-20D	TB7-20C		INTERNAL BUS		355
TB7-20D	K22-2	A 784	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-20E	TB7-20F		INTERNAL BUS		355
TB7-20E	TB7-20D		INTERNAL BUS		355
TB7-20F	TB7-20E		INTERNAL BUS		355
TB7-20F	K7-2	A 756	27 VDC RELAY AND LAMP POWER LO	20	355
	TB8 TERMINAL BOARD BUS IMU ZERO VDC (1900837)				
TB8-1	TB8-2		SOLID BUS-G AND N ZERO VDC		7
TB8-2	TB8-1		SOLID BUS-G AND N ZERO VDC		7
TB8-2	TB8-3		SOLID BUS-G AND N ZERO VDC		7
TB8-2	TB16-16	A 973	AGE ZERO VDC	12	7
TB8-3	TB8-2		SOLID BUS-G AND N ZERO VDC		7
TB8-3	TB8-4		SOLID BUS-G AND N ZERO VDC		7
TB8-4	TB8-3		SOLID BUS-G AND N ZERO VDC		7

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB8	TERMINAL BOARD BUS IMU ZERO VDC (1900837)				
TB8-4	TB8-5		SOLID BUS-G AND N ZERO VDC		7
TB8-5	TB8-4		SOLID BUS-G AND N ZERO VDC		7
TB8-5	TB8-6		SOLID BUS-G AND N ZERO VDC		7
TB8-5	J7-D*	A 129	28 VDC AGE LO	20	7
TB8-6	TB8-5		SOLID BUS-G AND N ZERO VDC		7
TB8-6	TB8-7		SOLID BUS-G AND N ZERO VDC		7
TB8-6	TB6-6C	A1105	6 V 400 CPS LAMP POWER LO	20	7
TB8-7	TB8-6		SOLID BUS-G AND N ZERO VDC		7
TB8-7	TB8-8		SOLID BUS-G AND N ZERO VDC		7
TB8-7	J6-G	A 115	28 VDC AGE POWER REMOTE SENSE LO	16	7
TB8-8	TB8-7		SOLID BUS-G AND N ZERO VDC		7
TB8-8	TB8-9		SOLID BUS-G AND N ZERO VDC		7
TB8-9	TB8-10		SOLID BUS-G AND N ZERO VDC		7
TB8-9	TB8-8		SOLID BUS-G AND N ZERO VDC		7
TB8-10	TB8-11		SOLID BUS-G AND N ZERO VDC		7
TB8-10	TB8-9		SOLID BUS-G AND N ZERO VDC		7
TB8-10	J6-D	A 114	28 VDC AGE POWER LO	8	7
TB8-11	TB8-12		SOLID BUS-G AND N ZERO VDC		7
TB8-11	TB8-10		SOLID BUS-G AND N ZERO VDC		7
TB8-12	TB8-13		SOLID BUS-G AND N ZERO VDC		7
TB8-12	TB8-11		SOLID BUS-G AND N ZERO VDC		7
TB8-12	TB10-2	A 974	AGE ZERO VDC	14	7
TB8-13	TB8-14		SOLID BUS-G AND N ZERO VDC		7
TB8-13	TB8-12		SOLID BUS-G AND N ZERO VDC		7
TB8-14	TB8-15		SOLID BUS-G AND N ZERO VDC		7
TB8-14	TB8-13		SOLID BUS-G AND N ZERO VDC		7
TB8-14	TB9-2	A 975	AGE ZERO VDC	12	7
TB8-15	TB8-16		SOLID BUS-G AND N ZERO VDC		7
TB8-15	TB8-14		SOLID BUS-G AND N ZERO VDC		7
TB8-15	J7-M	A1188	28 VDC AGE LO (REMOTE SENSE)	20	7
TB8-16	TB8-15		SOLID BUS-G AND N ZERO VDC		7
TB8-16	TB14-16	A 972	AGE ZERO VDC	12	7

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	TB9 TERMINAL BOARD SOLID BUS (1900837)				
TB9-1	TB9-2		SOLID BUS-		7
TB9-2	TB9-1		SOLID BUS-		7
TB9-2	TB9-3		SOLID BUS-		7
TB9-2	TB8-14	A 975	AGE ZERO VDC	12	7
TB9-3	TB9-2		SOLID BUS-		7
TB9-3	TB9-4		SOLID BUS-		7
TB9-4	TB9-3		SOLID BUS-		7
TB9-4	TB9-5		SOLID BUS-		7
TB9-5	TB9-4		SOLID BUS-		7
TB9-5	TB9-6		SOLID BUS-		7
TB9-6	TB9-5		SOLID BUS-		7
TB9-6	TB9-7		SOLID BUS-		7
TB9-7	TB9-6		SOLID BUS-		7
TB9-7	TB9-8		SOLID BUS-		7
TB9-8	TB9-7		SOLID BUS-		7
TB9-8	TB9-9		SOLID BUS-		7
TB9-9	TB9-10		SOLID BUS-		7
TB9-9	TB9-8		SOLID BUS-		7
TB9-10	TB9-11		SOLID BUS-		7
TB9-10	TB9-9		SOLID BUS-		7
TB9-11	TB9-12		SOLID BUS-		7
TB9-11	TB9-10		SOLID BUS-		7
TB9-12	TB9-13		SOLID BUS-		7
TB9-12	TB9-11		SOLID BUS-		7
TB9-13	TB9-14		SOLID BUS-		7
TB9-13	TB9-12		SOLID BUS-		7
TB9-14	TB9-15		SOLID BUS-		7
TB9-14	TB9-13		SOLID BUS-		7
TB9-15	TB9-16		SOLID BUS-		7
TB9-15	TB9-14		SOLID BUS-		7
TB9-16	TB9-15		SOLID BUS-		7

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	TB10 TERMINAL BOARD BUS AGC ZERO VDC (1900837)				
TB10-1	TB10-2		SOLID BUS-AGE ZERO VDC		7
TB10-2	TB10-1		SOLID BUS-AGE ZERO VDC		7
TB10-2	TB10-3		SOLID BUS-AGE ZERO VDC		7
TB10-2	TB8-12	A 974	AGE ZERO VDC	14	7
TB10-3	TB10-2		SOLID BUS-AGE ZERO VDC		7
TB10-3	TB10-4		SOLID BUS-AGE ZERO VDC		7
TB10-4	TB10-3		SOLID BUS-AGE ZERO VDC		7
TB10-4	TB10-5		SOLID BUS-AGE ZERO VDC		7
TB10-4	J40-V	A 628	0 VDC AGC	12	7
TB10-5	TB10-4		SOLID BUS-AGE ZERO VDC		7
TB10-5	TB10-6		SOLID BUS-AGE ZERO VDC		7
TB10-6	TB10-5		SOLID BUS-AGE ZERO VDC		7
TB10-6	TB10-7		SOLID BUS-AGE ZERO VDC		7
TB10-6	J46-V	A 725	0 VDC AGC	12	7
TB10-7	TB10-6		SOLID BUS-AGE ZERO VDC		7
TB10-7	TB10-8		SOLID BUS-AGE ZERO VDC		7
TB10-8	TB10-7		SOLID BUS-AGE ZERO VDC		7
TB10-8	TB10-9		SOLID BUS-AGE ZERO VDC		7
TB10-9	TB10-10		SOLID BUS-AGE ZERO VDC		7
TB10-9	TB10-8		SOLID BUS-AGE ZERO VDC		7
TB10-10	TB10-11		SOLID BUS-AGE ZERO VDC		7
TB10-10	TB10-9		SOLID BUS-AGE ZERO VDC		7
TB10-11	TB10-12		SOLID BUS-AGE ZERO VDC		7
TB10-11	TB10-10		SOLID BUS-AGE ZERO VDC		7
TB10-12	TB10-13		SOLID BUS-AGE ZERO VDC		7
TB10-12	TB10-11		SOLID BUS-AGE ZERO VDC		7
TB10-13	TB10-14		SOLID BUS-AGE ZERO VDC		7
TB10-13	TB10-12		SOLID BUS-AGE ZERO VDC		7
TB10-14	TB10-15		SOLID BUS-AGE ZERO VDC		7
TB10-14	TB10-13		SOLID BUS-AGE ZERO VDC		7
TB10-15	TB10-16		SOLID BUS-AGE ZERO VDC		7
TB10-15	TB10-14		SOLID BUS-AGE ZERO VDC		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					170
TB11-9E	TB11-9D		INTERNAL BUS		170
TB11-9E	TB11-9F		INTERNAL BUS		170
TB11-9E	K48-14	A 874R	MG 1 X SIN BAI (IMU) HI	24	170
TB11-9F	TB11-9E		INTERNAL BUS		172
TB11-10A	TB11-10B		INTERNAL BUS		172
TB11-10B	TB11-10C		INTERNAL BUS		172
TB11-10B	TB11-10A		INTERNAL BUS		172
TB11-10C	TB11-10D		INTERNAL BUS		172
TB11-10C	TB11-10B		INTERNAL BUS		172
TB11-10D	TB11-10E		INTERNAL BUS		172
TB11-10D	TB11-10C		INTERNAL BUS		172
TB11-10D	K63-11	A 936L	MG 1 X SIN BAI (IMU) LO	24	172
TB11-10E	TB11-10F		INTERNAL BUS		172
TB11-10E	TB11-10D		INTERNAL BUS		172
TB11-10E	K48-17	A 874L	MG 1 X SIN BAI (IMU) LO	24	172
TB11-10F	TB11-10E		INTERNAL BUS		172
TB11-11A	TB11-11B		INTERNAL BUS		165
TB11-11B	TB11-11C		INTERNAL BUS		165
TB11-11B	TB11-11A		INTERNAL BUS		165
TB11-11C	TB11-11D		INTERNAL BUS		165
TB11-11C	TB11-11B		INTERNAL BUS		165
TB11-11D	TB11-11E		INTERNAL BUS		165
TB11-11D	TB11-11C		INTERNAL BUS		165
TB11-11D	K63-20	A 937R	MG 1 X COS HI (BAI)	24	165
TB11-11E	TB11-11F		INTERNAL BUS		165
TB11-11E	TB11-11D		INTERNAL BUS		165
TB11-11E	K48-8	A 872R	MG 1 X COS HI (BAI)	24	165
TB11-11F	TB11-11E		INTERNAL BUS		165
TB11-12A	TB11-12B		INTERNAL BUS		168
TB11-12B	TB11-12C		INTERNAL BUS		168
TB11-12B	TB11-12A		INTERNAL BUS		168
TB11-12C	TB11-12D		INTERNAL BUS		168

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-12C	TB11-12B		INTERNAL BUS		168
TB11-12D	TB11-12E		INTERNAL BUS		168
TB11-12D	TB11-12C		INTERNAL BUS		168
TB11-12D	K63-17	A 937L	MG 1 X COS LO (BAI)	24	168
TB11-12E	TB11-12F		INTERNAL BUS		168
TB11-12E	TB11-12D		INTERNAL BUS		168
TB11-12E	K48-11	A 872L	MG 1 X COS LO (BAI)	24	168
TB11-12F	TB11-12E		INTERNAL BUS		168
TB11-13A	TB11-13B		INTERNAL BUS		182
TB11-13A	J4-N*	A 72R	COS AOG 1X S3 (HI)	24	182
TB11-13B	TB11-13C		INTERNAL BUS		182
TB11-13B	TB11-13A		INTERNAL BUS		182
TB11-13B	J5-W*	A 103R	COS AOG 1X S3 (HI)	24	182
TB11-13C	TB11-13D		INTERNAL BUS		182
TB11-13C	TB11-13B		INTERNAL BUS		182
TB11-13D	TB11-13E		INTERNAL BUS		182
TB11-13D	TB11-13C		INTERNAL BUS		182
TB11-13E	TB11-13F		INTERNAL BUS		182
TB11-13E	TB11-13D		INTERNAL BUS		182
TB11-13F	TB11-13E		INTERNAL BUS		182
TB11-13F	J22-Y*	A 322	IMU COS AOG 1X HI	24	182
TB11-14A	TB11-14B		INTERNAL BUS		184
TB11-14A	J4-N*	A 72L	COS AOG 1X S1 (LO)	24	184
TB11-14B	TB11-14C		INTERNAL BUS		184
TB11-14B	TB11-14A		INTERNAL BUS		184
TB11-14B	J5-X*	A 103L	COS AOG 1X S1 (LO)	24	184
TB11-14C	TB11-14D		INTERNAL BUS		184
TB11-14C	TB11-14B		INTERNAL BUS		184
TB11-14D	TB11-14E		INTERNAL BUS		184
TB11-14D	TB11-14C		INTERNAL BUS		184
TB11-14D	K67-16	A 949	OG IMU 1 X COS LO (BAI MON)	24	184
TB11-14E	TB11-14F		INTERNAL BUS		184

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					184
TB11-14E	TB11-14D		INTERNAL BUS		184
TB11-14E	K52-10	A 888	CDU COS AOG 1 X LO	24	184
TB11-14F	TB11-14E		INTERNAL BUS		139
TB11-15A	TB11-15B		INTERNAL BUS		139
TB11-15B	TB11-15C		INTERNAL BUS		139
TB11-15B	TB11-15A		INTERNAL BUS		139
TB11-15C	TB11-15D		INTERNAL BUS		139
TB11-15C	TB11-15B		INTERNAL BUS		139
TB11-15D	TB11-15E		INTERNAL BUS		139
TB11-15D	TB11-15C		INTERNAL BUS		139
TB11-15D	K44-8	A 856R	IG 1 X COS HI (BAI)	24	139
TB11-15E	TB11-15F		INTERNAL BUS		139
TB11-15E	TB11-15D		INTERNAL BUS		139
TB11-15E	K59-20	A 920R	IG 1 X COS HI (BAI)	24	139
TB11-15F	TB11-15E		INTERNAL BUS		141
TB11-16A	TB11-16B		INTERNAL BUS		141
TB11-16B	TB11-16C		INTERNAL BUS		141
TB11-16B	TB11-16A		INTERNAL BUS		141
TB11-16C	TB11-16D		INTERNAL BUS		141
TB11-16C	TB11-16B		INTERNAL BUS		141
TB11-16D	TB11-16E		INTERNAL BUS		141
TB11-16D	TB11-16C		INTERNAL BUS		141
TB11-16D	K44-11	A 856L	IG 1 X COS LO (BAI)	24	141
TB11-16E	TB11-16F		INTERNAL BUS		141
TB11-16E	TB11-16D		INTERNAL BUS		141
TB11-16E	K59-17	A 920L	IG 1 X COS LO (BAI)	24	141
TB11-16F	TB11-16E		INTERNAL BUS		141
TB11-17A	TB11-17B		INTERNAL BUS		143
TB11-17B	TB11-17C		INTERNAL BUS		143
TB11-17B	TB11-17A		INTERNAL BUS		143
TB11-17C	TB11-17D		INTERNAL BUS		143
TB11-17C	TB11-17B		INTERNAL BUS		143

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					143
TB11-17D	TB11-17E		INTERNAL BUS		143
TB11-17D	TB11-17C		INTERNAL BUS		143
TB11-17D	K44-14	A 858R	IG 1 X SIN HI (BAI)	24	143
TB11-17E	TB11-17F		INTERNAL BUS		143
TB11-17E	TB11-17D		INTERNAL BUS		143
TB11-17E	K59-14	A 919R	IG 1 X SIN HI (BAI)	24	143
TB11-17F	TB11-17E		INTERNAL BUS		145
TB11-18A	TB11-18B		INTERNAL BUS		145
TB11-18B	TB11-18C		INTERNAL BUS		145
TB11-18B	TB11-18A		INTERNAL BUS		145
TB11-18C	TB11-18D		INTERNAL BUS		145
TB11-18C	TB11-18B		INTERNAL BUS		145
TB11-18D	TB11-18E		INTERNAL BUS		145
TB11-18D	TB11-18C		INTERNAL BUS		145
TB11-18D	K44-17	A 858L	IG 1 X SIN LO (BAI)	24	145
TB11-18E	TB11-18F		INTERNAL BUS		145
TB11-18E	TB11-18D		INTERNAL BUS		145
TB11-18E	K59-11	A 919L	IG 1 X SIN LO (BAI)	24	145
TB11-18F	TB11-18E		INTERNAL BUS		265
TB11-19A	TB11-19B		INTERNAL BUS		265
TB11-19A	J5-L	A 81	GIMBAL LOCK SIGNAL HI	20	265
TB11-19B	TB11-19C		INTERNAL BUS		265
TB11-19B	TB11-19A		INTERNAL BUS		265
TB11-19B	J25-N*	A1125	MG LOCK INDICATION	20	265
TB11-19C	TB11-19D		INTERNAL BUS		265
TB11-19C	TB11-19B		INTERNAL BUS		265
TB11-19C	J34-F	A1126	GIMBAL LOCK SIGNAL	20	265
TB11-19D	TB11-19E		INTERNAL BUS		265
TB11-19D	TB11-19C		INTERNAL BUS		265
TB11-19E	TB11-19F		INTERNAL BUS		265
TB11-19E	TB11-19D		INTERNAL BUS		265
TB11-19F	TB11-19E		INTERNAL BUS		265

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-20A	TB11-20B		INTERNAL BUS		1
TB11-20A	K28-2	A 793	OPTICS 28 VDC HI	20	1
TB11-20B	TB11-20C		INTERNAL BUS		1
TB11-20B	TB11-20A		INTERNAL BUS		1
TB11-20B	K17-4	A 739	OPTICS 28 VDC HI	20	1
TB11-20C	TB11-20D		INTERNAL BUS		1
TB11-20C	TB11-20B		INTERNAL BUS		1
TB11-20C	E15	A1142	OPTICS 28 VDC HI	20	1
TB11-20D	TB11-20E		INTERNAL BUS		1
TB11-20D	TB11-20C		INTERNAL BUS		1
TB11-20E	TB11-20F		INTERNAL BUS		1
TB11-20E	TB11-20D		INTERNAL BUS		1
TB11-20F	TB11-20E		INTERNAL BUS		
	TB12 A2 RELAY DIODE BOARD (1900831-011)				
TB12-1	TB7-15C	A 971	27 VDC RLP GROUND (A2CR1 ANODE)	20	355
TB12-1	TB12-3	A2AA1	27 VDC RLP GROUND (A2CR1 ANODE)	20	355
TB12-2	K29-4	A 799	K29 COIL (K404 MECH)-(A2CR1 CATHODE)	20	572
TB12-3	TB12-1	A2AA1	27 VDC RLP GROUND (A2CR2 ANODE)	20	355
TB12-3	TB12-5	A2AA2	27 VDC RLP GROUND (A2CR2 ANODE)	20	355
TB12-4	K18-4	A 770	K18 COIL (K403 MECH)-(A2CR2 CATHODE)	20	572
TB12-5	TB12-3	A2AA2	27 VDC RLP GROUND (A2CR3 ANODE)	20	355
TB12-5	TB12-7	A2AA3	27 VDC RLP GROUND (A2CR3 ANODE)	20	355
TB12-6			A2CR3 CATHODE - SPARE		
TB12-7	TB12-5	A2AA3	27 VDC RLP GROUND (A2CR4 ANODE)	20	355
TB12-7	TB12-9	A2AA4	27 VDC RLP GROUND (A2CR4 ANODE)	20	355
TB12-8	K20-4	A 776	K20 COIL (K407 MECH)-(A2CR4 CATHODE)	20	24
TB12-8	K26-1	A1160	K20 COIL (K407 MECH) CONTROL (A2CR4 CATHODE)	20	24
TB12-9	TB12-7	A2AA4	27 VDC RLP GROUND (A2CR5 ANODE)	20	355

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB12	A2 RELAY DIODE BOARD (1900831-011)				
TB12-9	TB12-11	A2AA5	27 VDC RLP GROUND (A2CR5 ANODE)	20	355
TB12-10			A2CR5 CATHODE - SPARE		
TB12-11	TB12-9	A2AA5	27 VDC RLP GROUND (A2CR6 ANODE)	20	355
TB12-11	TB12-13	A2AA6	27 VDC RLP GROUND (A2CR6 ANODE)	20	355
TB12-12	J1-FF	A 16	ENABLE TRUN CDU MOTOR (A2CR6 CATHODE)	20	13
TB12-12	K27-4	A 791	K27 COIL (K406 MECH)-(A2CR6 CATHODE)	20	13
TB12-13	TB12-11	A2AA6	27 VDC RLP GROUND (A2CR7 ANODE)	20	355
TB12-14	J1-EE	A 15	ENABLE SHAFT CDU MOTOR (A2CR7 CATHODE)	20	12
TB12-14	K28-4	A 795	K28 COIL (K405 MECH)-(A2CR7 CATHODE)	20	12
TB12-15	J1-V	A1163	SCT MDA DISABLE LO (A2CR8 ANODE)	20	20
TB12-15	K26-11	A1165	SCT MDA DISABLE LO (A2CR8 ANODE)	20	20
TB12-16	K26-4	A1164	SCT MDA DISABLE HI (A2CR8 CATHODE)	20	18
TB12-16	J1-U	A1162	SCT MDA DISABLE HI (A2CR8 CATHODE)	20	18
TB12-17	J11-AA	A 294	+28 VDC OPTICS (A2CR9 ANODE)	20	63
TB12-17	J42-E*	A1112	+28 VDC OPTICS HI (A2CR9 ANODE)	20	63
TB12-18	TB12-20	A2AA9	+28 VDC STANDBY - OPTICS HI (A2CR9 CATHODE)	20	519
TB12-19	J11-R*	A 288	+28 VDC STANDBY (A2CR10 ANODE)	20	88
TB12-19	J25-Q*	A1111	28 VDC ISS STANDBY HI (A2CR10 ANODE)	20	88
TB12-20	J45-GG	A 713	+28 VDC MDV (A2CR10 CATHODE)	20	519
TB12-20	TB12-18	A2AA9	+28 VDC STANDBY - OPTICS HI (A2CR10 CATHODE)	20	519
TB12-21	K20-6	A1150	SIMULATED COSECANT RELAY LO (A2CR11 ANODE)	20	574
TB12-22	J1-AA	A 11	OPT TEST CSC RELAY LO (A2CR11 CATHODE)	24	8
TB12-22	K17-11	A 777	SIMULATED COSECANT RELAY LO (A2CR11 CATHODE)	20	8
TB12-23			A2CR12 ANODE - SPARE		
TB12-24			A2CR12 CATHODE - SPARE		
TB12-25			A2CR13 ANODE - SPARE		
TB12-26			A2CR13 CATHODE - SPARE		
TB12-27			A2CR14 ANODE - SPARE		
TB12-28			A2CR14 CATHODE - SPARE		
TB12-29			A2CR15 ANODE - SPARE		
TB12-30			A2CR15 CATHODE - SPARE		
TB12-31			A2CR16 ANODE - SPARE		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB12	A2 RELAY DIODE BOARD (1900831-011)				
TB12-32			A2CR16 CATHODE - SPARE		
TB12-33			A2CR17 ANODE - SPARE		
TB12-34			A2CR17 CATHODE - SPARE		
TB12-35			A2CR18 ANODE - SPARE		
TB12-36			A2CR18 CATHODE - SPARE		
TB12-37			A2CR19 ANODE - SPARE		
TB12-38			A2CR19 CATHODE - SPARE		
TB12-39	K17-11	A 766	27 VDC RLP LO (A2CR20 ANODE)	20	8
TB12-40	J43-P	A 661	OPTICS 28 VDC HI (FROM PSA)-(A2CR20 CATHODE)	20	1
TB12-40	K17-4	A 765	OPTICS 28 VDC HI (FROM PSA)-(A2CR20 CATHODE)	20	1
	TB13 TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-1A	TB13-1B		INTERNAL BUS		107
TB13-1B	TB13-1A		INTERNAL BUS		107
TB13-1B	TB13-1C		INTERNAL BUS		107
TB13-1B	J32-BB	A 492R	28V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
TB13-1C	TB13-1B		INTERNAL BUS		107
TB13-1C	TB13-1D		INTERNAL BUS	24	107
TB13-1C	J33-BB	A 513R	28V 800 CPS 5 PERCENT L-90 DEG IMU HI		107
TB13-1D	TB13-1C		INTERNAL BUS		107
TB13-1D	TB13-1E		INTERNAL BUS	24	107
TB13-1D	J38-BB	A 598R	28V 800 CPS 5 PERCENT L-90 DEG IMU HI		107
TB13-1E	TB13-1D		INTERNAL BUS		107
TB13-1E	TB13-1F		INTERNAL BUS	20	107
TB13-1E	J25-M	A 383R	800 CPS 5 PERCENT CDU AND BLOWER HI		107
TB13-1F	TB13-1E		INTERNAL BUS	24	107
TB13-1F	J2-C	A 21R	800 CPS 28 V L-90 DEG HI IMU		109
TB13-2A	TB13-2B		INTERNAL BUS		109
TB13-2B	TB13-2A		INTERNAL BUS		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-2B	TB13-2C		INTERNAL BUS		109
TB13-2B	J32-CC	A 492L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
TB13-2C	TB13-2B		INTERNAL BUS		109
TB13-2C	TB13-2D		INTERNAL BUS	24	109
TB13-2C	J33-CC	A 513L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO		109
TB13-2D	TB13-2C		INTERNAL BUS		109
TB13-2D	TB13-2E		INTERNAL BUS	24	109
TB13-2D	J38-CC	A 598L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO		109
TB13-2E	TB13-2D		INTERNAL BUS		109
TB13-2E	TB13-2F		INTERNAL BUS	20	109
TB13-2E	J25-N	A 383L	800 CPS 5 PERCENT CDU AND BLOWER LO		109
TB13-2F	TB13-2E		INTERNAL BUS	24	109
TB13-2F	J2-D	A 21L	800 CPS 28 V L-90 DEG LO IMU		356
TB13-3A	TB13-3B		INTERNAL BUS	20	356
TB13-3A	J7-K*	A 136	27 VDC RLP LO OSS ONLY		356
TB13-3B	TB13-3A		INTERNAL BUS		356
TB13-3B	TB13-3C		INTERNAL BUS	20	356
TB13-3B	J30-M	A1190	27 VDC RLP LO OSS ONLY		356
TB13-3C	TB13-3B		INTERNAL BUS		356
TB13-3C	TB13-3D		INTERNAL BUS	24	356
TB13-3C	J35-Y*	A 560	27 VDC RLP LO OSS ONLY		356
TB13-3D	TB13-3C		INTERNAL BUS		356
TB13-3D	TB13-3E		INTERNAL BUS		356
TB13-3E	TB13-3D		INTERNAL BUS		356
TB13-3E	TB13-3F		INTERNAL BUS		356
TB13-3F	TB13-3E		INTERNAL BUS		202
TB13-4A	TB13-4B		INTERNAL BUS	24	202
TB13-4A	J23-M*	A 346R	SCT 1/2 X SHAFT RSVR P4		202
TB13-4B	TB13-4A		INTERNAL BUS		202
TB13-4B	TB13-4C		INTERNAL BUS	24	202
TB13-4B	J24-W*	A 369R	SHAFT CDU 1/2X COSINE LO P4		202
TB13-4C	TB13-4B		INTERNAL BUS		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					202
TB13-4C	TB13-4D		INTERNAL BUS		202
TB13-4C	J37-D*	A 577R	SHAFT CDU 1/2X COS HI	24	202
TB13-4D	TB13-4C		INTERNAL BUS		202
TB13-4D	TB13-4E		INTERNAL BUS		202
TB13-4D	J41-J*	A 649R	SHAFT CDU 1/2X COS HI	24	202
TB13-4E	TB13-4D		INTERNAL BUS		202
TB13-4E	TB13-4F		INTERNAL BUS		202
TB13-4F	TB13-4E		INTERNAL BUS		204
TB13-5A	TB13-5B		INTERNAL BUS		204
TB13-5A	J23-N*	A 346L	SCT 1/2 X SHAFT RSVR P2	24	204
TB13-5B	TB13-5A		INTERNAL BUS		204
TB13-5B	TB13-5C		INTERNAL BUS		204
TB13-5B	J24-X*	A 369L	SHAFT CDU 1/2X COSINE HI P2	24	204
TB13-5C	TB13-5B		INTERNAL BUS		204
TB13-5C	TB13-5D		INTERNAL BUS		204
TB13-5C	J37-E*	A 577L	SHAFT CDU 1/2X COS LO	24	204
TB13-5D	TB13-5C		INTERNAL BUS		204
TB13-5D	TB13-5E		INTERNAL BUS		204
TB13-5D	J41-I*	A 649L	SHAFT CDU 1/2X COS LO	24	204
TB13-5E	TB13-5D		INTERNAL BUS		204
TB13-5E	TB13-5F		INTERNAL BUS		204
TB13-5F	TB13-5E		INTERNAL BUS		302
TB13-6A	TB13-6B		INTERNAL BUS		302
TB13-6A	J4-D*	A 67	LOCK CDU RELAY CONTROL	24	302
TB13-6B	TB13-6A		INTERNAL BUS		302
TB13-6B	TB13-6C		INTERNAL BUS		302
TB13-6B	J27-AA	A 440	LOCK CDU RELAY CONTROL	24	302
TB13-6C	TB13-6B		INTERNAL BUS		302
TB13-6C	TB13-6D		INTERNAL BUS		302
TB13-6C	J39-DD	A 615	CDU MANUAL RELAY CONTROL (TO AGC)	24	302
TB13-6D	TB13-6C		INTERNAL BUS		302
TB13-6D	TB13-6E		INTERNAL BUS		302

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					302
TB13-6E	TB13-6D		INTERNAL BUS		302
TB13-6E	TB13-6F		INTERNAL BUS		302
TB13-6F	TB13-6E		INTERNAL BUS		150
TB13-7A	TB13-7B		INTERNAL BUS		150
TB13-7A	J5-E	A 86R	IMU IG AND Y GYRO ERROR SIG HI	24	150
TB13-7B	TB13-7A		INTERNAL BUS		150
TB13-7B	TB13-7C		INTERNAL BUS		150
TB13-7B	J22-GG	A 327R	INNER GIMBAL ERROR SIGNAL HI	24	150
TB13-7C	TB13-7B		INTERNAL BUS		150
TB13-7C	TB13-7D		INTERNAL BUS		150
TB13-7C	J26-D*	A 405R	INNER GIMBAL ERROR SIGNAL HI	22	150
TB13-7D	TB13-7C		INTERNAL BUS		150
TB13-7D	TB13-7E		INTERNAL BUS		150
TB13-7E	TB13-7D		INTERNAL BUS		150
TB13-7E	TB13-7F		INTERNAL BUS		150
TB13-7F	TB13-7E		INTERNAL BUS		152
TB13-8A	TB13-8B		INTERNAL BUS		152
TB13-8A	J5-F	A 86L	IMU GIMBAL AND GYRO ERROR SIG LO	24	152
TB13-8B	TB13-8A		INTERNAL BUS		152
TB13-8B	TB13-8C		INTERNAL BUS		152
TB13-8B	J22-HH	A 327L	INNER GIMBAL ERROR SIGNAL LO	24	152
TB13-8C	TB13-8B		INTERNAL BUS		152
TB13-8C	TB13-8D		INTERNAL BUS		152
TB13-8C	J26-E*	A 405L	INNER GIMBAL ERROR SIGNAL LO	22	152
TB13-8D	TB13-8C		INTERNAL BUS		152
TB13-8D	TB13-8E		INTERNAL BUS		152
TB13-8E	TB13-8D		INTERNAL BUS		152
TB13-8E	TB13-8F		INTERNAL BUS		248
TB13-8F	TB13-8E		INTERNAL BUS		248
TB13-9A	TB13-9B		INTERNAL BUS		248
TB13-9A	J4-P	A1117	0 VDC SPACECRAFT	20	248
TB13-9B	TB13-9A		INTERNAL BUS		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					248
TB13-9B	TB13-9C		INTERNAL BUS		248
TB13-9B	J25-C*	A 389	0 VDC (SPACECRAFT)	20	248
TB13-9C	TB13-9B		INTERNAL BUS		248
TB13-9C	TB13-9D		INTERNAL BUS		248
TB13-9C	J34-M	A 525	0 VDC (SPACECRAFT)	22	248
TB13-9D	TB13-9C		INTERNAL BUS		248
TB13-9D	TB13-9E		INTERNAL BUS		248
TB13-9E	TB13-9D		INTERNAL BUS		248
TB13-9E	TB13-9F		INTERNAL BUS		248
TB13-9F	TB13-9E		INTERNAL BUS		260
TB13-10A	TB13-10B		INTERNAL BUS		260
TB13-10A	J38-B*	A 588	ZEROING RESOLVER EXCITATION	24	260
TB13-10B	TB13-10C		INTERNAL BUS		260
TB13-10B	TB13-10A		INTERNAL BUS		260
TB13-10B	J33-B*	A 503	ZEROING RESOLVER EXCITATION	24	260
TB13-10C	TB13-10D		INTERNAL BUS		260
TB13-10C	TB13-10B		INTERNAL BUS		260
TB13-10C	J32-B*	A 482	ZEROING RESOLVER EXCITATION	24	260
TB13-10D	TB13-10E		INTERNAL BUS		260
TB13-10D	TB13-10C		INTERNAL BUS		260
TB13-10D	J25-K*	A 265	ZEROING RESOLVER EXCITATION	24	260
TB13-10E	TB13-10F		INTERNAL BUS		260
TB13-10E	TB13-10D		INTERNAL BUS		260
TB13-10F	TB13-10E		INTERNAL BUS		263
TB13-11A	TB13-11B		INTERNAL BUS		263
TB13-11A	J38-DD	A 600	+28 VDC CDU NOT LOCK	24	263
TB13-11B	TB13-11C		INTERNAL BUS		263
TB13-11B	TB13-11A		INTERNAL BUS		263
TB13-11B	J33-DD	A 515	+28 VDC CDU NOT LOCK	24	263
TB13-11C	TB13-11D		INTERNAL BUS		263
TB13-11C	TB13-11B		INTERNAL BUS		263
TB13-11C	J32-DD	A 494	+28 VDC CDU NOT LOCK	24	263

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
					263
TB13-11D	TB13-11E		INTERNAL BUS		263
TB13-11D	TB13-11C		INTERNAL BUS		263
TB13-11D	J25-M*	A 392	28 VDC CDU NOT LOCK	24	263
TB13-11E	TB13-11F		INTERNAL BUS		263
TB13-11E	TB13-11D		INTERNAL BUS		263
TB13-11F	TB13-11E		INTERNAL BUS		90
TB13-12A	TB13-12B		INTERNAL BUS		90
TB13-12A	J45-S*	A 708	+28 VDC IMU	20	90
TB13-12B	TB13-12C		INTERNAL BUS		90
TB13-12B	TB13-12A		INTERNAL BUS		90
TB13-12B	J32-AA	A 17	+28 VDC (IMU)	24	90
TB13-12C	TB13-12D		INTERNAL BUS		90
TB13-12C	TB13-12B		INTERNAL BUS		90
TB13-12C	J33-AA	A 27	+28 VDC (IMU)	24	90
TB13-12D	TB13-12E		INTERNAL BUS		90
TB13-12D	TB13-12C		INTERNAL BUS		90
TB13-12D	J38-AA	A 333	IMU +28 VDC	24	90
TB13-12E	TB13-12F		INTERNAL BUS		90
TB13-12E	TB13-12D		INTERNAL BUS		90
TB13-12E	J11-S*	A 289	+28 VDC IMU	20	90
TB13-12F	TB13-12E		INTERNAL BUS		90
TB13-12F	J25-K	A 785	+28 VDC IMU	20	90
TB13-13A	TB13-13B		INTERNAL BUS		185
TB13-13A	J37-BB	A 581W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
TB13-13B	TB13-13C		INTERNAL BUS		185
TB13-13B	TB13-13A		INTERNAL BUS		185
TB13-13B	J31-EE	A 473W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
TB13-13C	TB13-13D		INTERNAL BUS		185
TB13-13C	TB13-13B		INTERNAL BUS		185
TB13-13C	J35-L	A 553R	28 V 800 CPS 5 PERCENT OPTICS HI	24	185
TB13-13D	TB13-13E		INTERNAL BUS		185
TB13-13D	TB13-13C		INTERNAL BUS		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-13D	J23-A	A 331R	28 V 800 CPS 5 PER CENT HI	20	185
TB13-13E	TB13-13F		INTERNAL BUS		185
TB13-13E	TB13-13D		INTERNAL BUS		185
TB13-13F	TB13-13E		INTERNAL BUS		185
TB13-13F	J43-Y	A 666W	800 CPS 5 PERCENT SXT POWER IN HI	22	185
TB13-14A	TB13-14B		INTERNAL BUS		186
TB13-14A	J37-CC	A 266	28 V 800 CPS 5 PERCENT LO	24	186
TB13-14B	TB13-14C		INTERNAL BUS		186
TB13-14B	TB13-14A		INTERNAL BUS		186
TB13-14B	J31-FF	A 474	800 CPS 5 PERCENT LO	24	186
TB13-14C	TB13-14D		INTERNAL BUS		186
TB13-14C	TB13-14B		INTERNAL BUS		186
TB13-14C	J35-M	A 553L	28 VOLT 800 CPS 5 PERCENT OPTICS LO	24	186
TB13-14D	TB13-14E		INTERNAL BUS		186
TB13-14D	TB13-14C		INTERNAL BUS		186
TB13-14D	J23-B	A 331L	28 V 800 CPS 5 PER CENT LO	20	186
TB13-14E	TB13-14F		INTERNAL BUS		186
TB13-14E	TB13-14D		INTERNAL BUS		186
TB13-14F	TB13-14E		INTERNAL BUS		186
TB13-14F	J24-E	A 264	28V 800 CPS 5 PERCENT LO	20	186
TB13-15A	TB13-15B		INTERNAL BUS		198
TB13-15A	J37-Y	A 575R	28 V 800 CPS 0 DEG 1 PERCENT HI	24	198
TB13-15B	TB13-15C		INTERNAL BUS		198
TB13-15B	TB13-15A		INTERNAL BUS		198
TB13-15B	J31-Y	A 459R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198
TB13-15C	TB13-15D		INTERNAL BUS		198
TB13-15C	TB13-15B		INTERNAL BUS		198
TB13-15D	TB13-15E		INTERNAL BUS		198
TB13-15D	TB13-15C		INTERNAL BUS		198
TB13-15E	TB13-15F		INTERNAL BUS		198
TB13-15E	TB13-15D		INTERNAL BUS		198
TB13-15E	J31-B•	A 460R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-15F	TB13-15E		INTERNAL BUS		198
TB13-15F	TB13-17F	AA120	28 V 800 CPS 1 PER CENT 0 DEG HI	20	198
TB13-16A	TB13-16B		INTERNAL BUS		200
TB13-16A	J37-Z	A 575L	28 V 800 CPS 0 DEG 1 PERCENT LO	24	200
TB13-16B	TB13-16C		INTERNAL BUS		200
TB13-16B	TB13-16A		INTERNAL BUS		200
TB13-16B	J31-Z	A 459L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
TB13-16C	TB13-16D		INTERNAL BUS		200
TB13-16C	TB13-16B		INTERNAL BUS		200
TB13-16D	TB13-16E		INTERNAL BUS		200
TB13-16D	TB13-16C		INTERNAL BUS		200
TB13-16D	J31-D•	A1061	28 V 800 CPS 1 PERCENT 0 DEG LO	20	200
TB13-16E	TB13-16F		INTERNAL BUS		200
TB13-16E	TB13-16D		INTERNAL BUS		200
TB13-16E	J31-C•	A 460L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
TB13-16F	TB13-16E		INTERNAL BUS		200
TB13-16F	TB13-18F	AA121	28 V 800 CPS 1 PER CENT LO	20	200
TB13-17A	TB13-17B		INTERNAL BUS		198
TB13-17A	TB13-19A	AA147	28 V 800 CPS 1 PER CENT HI	20	198
TB13-17B	TB13-17C		INTERNAL BUS		198
TB13-17B	TB13-17A		INTERNAL BUS		198
TB13-17B	J23-J	A 336R	28 V 800 CPS 1 PER CENT HI	20	198
TB13-17C	TB13-17D		INTERNAL BUS		198
TB13-17C	TB13-17B		INTERNAL BUS		198
TB13-17C	J24-CC	A 372R	800 CPS 28 V 1 PERCENT HI OPTICS	24	198
TB13-17D	TB13-17E		INTERNAL BUS		198
TB13-17D	TB13-17C		INTERNAL BUS		196
TB13-17D	J35-Y	A 555R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
TB13-17E	TB13-17F		INTERNAL BUS		198
TB13-17E	TB13-17D		INTERNAL BUS		198
TB13-17E	K20-12	A 810R	28 V 800 CPS 1 PER CENT OPTICS HI	22	198
TB13-17F	TB13-17E		INTERNAL BUS		198

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-17F	TB13-15F	AA120	28 V 800 CPS 1 PER CENT OPTICS HI	20	198
TB13-18A	TB13-18B		INTERNAL BUS		200
TB13-18A	TB13-20A	AA146	28 V 800 CPS 1 PER CENT LO	20	200
TB13-18B	TB13-18C		INTERNAL BUS		200
TB13-18B	TB13-18A		INTERNAL BUS		200
TB13-18B	J23-K	A 336L	28 V 800 CPS 1 PER CENT LO	20	200
TB13-18C	TB13-18D		INTERNAL BUS		200
TB13-18C	TB13-18B		INTERNAL BUS		200
TB13-18C	J24-DD	A 372L	800 CPS 28 V 1 PERCENT LO OPTICS	24	200
TB13-18D	TB13-18E		INTERNAL BUS		200
TB13-18D	TB13-18C		INTERNAL BUS		200
TB13-18D	J35-Z	A 555L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
TB13-18E	TB13-18F		INTERNAL BUS		200
TB13-18E	TB13-18D		INTERNAL BUS		200
TB13-18E	K20-10	A 810L	28 V 800 CPS 1 PER CENT OPTICS LO	22	200
TB13-18F	TB13-18E		INTERNAL BUS		200
TB13-18F	TB13-16F	AA121	28 V 800 CPS 1 PER CENT OPTICS LO	20	200
TB13-19A	TB13-19B		INTERNAL BUS		198
TB13-19A	TB13-17A	AA147	28 V 800 CPS 1 PERCENT HI	20	198
TB13-19B	TB13-19C		INTERNAL BUS		198
TB13-19B	TB13-19A		INTERNAL BUS		198
TB13-19B	J24-J	A 352R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
TB13-19C	TB13-19D		INTERNAL BUS		198
TB13-19C	TB13-19B		INTERNAL BUS		198
TB13-19C	J24-JJ	A 270R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
TB13-19D	TB13-19E		INTERNAL BUS		198
TB13-19D	TB13-19C		INTERNAL BUS		198
TB13-19D	J37-PP	A 584R	28 V 800 CPS 1 PERCENT HI	24	198
TB13-19E	TB13-19F		INTERNAL BUS		198
TB13-19E	TB13-19D		INTERNAL BUS		198
TB13-19F	TB13-19E		INTERNAL BUS		198
TB13-20A	TB13-20B		INTERNAL BUS		200

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-20A	TB13-18A	AA146	28 V 800 CPS 1 PERCENT OPTICS LO	20	200
TB13-20B	TB13-20C		INTERNAL BUS		200
TB13-20B	TB13-20A		INTERNAL BUS		200
TB13-20B	J24-K	A 352L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
TB13-20C	TB13-20D		INTERNAL BUS		200
TB13-20C	TB13-20B		INTERNAL BUS		200
TB13-20C	J24-KK	A 270L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
TB13-20D	TB13-20E		INTERNAL BUS		200
TB13-20D	TB13-20C		INTERNAL BUS		200
TB13-20D	J37-MM	A 584L	28 V 800 CPS 1 PERCENT LO	24	200
TB13-20E	TB13-20F		INTERNAL BUS		200
TB13-20E	TB13-20D		INTERNAL BUS		200
TB13-20E	J37-NN	A 584Y	28 V 800 CPS 1 PERCENT LO	24	200
TB13-20F	TB13-20E		INTERNAL BUS		200
TB14	TERMINAL BOARD BUS OPTICS ZERO VDC (1900837)				
TB14-1	TB14-2		SOLID BUS-OPTICS ZERO VDC		7
TB14-2	TB14-1		SOLID BUS-OPTICS ZERO VDC		7
TB14-2	TB14-3		SOLID BUS-OPTICS ZERO VDC		7
TB14-3	TB14-2		SOLID BUS-OPTICS ZERO VDC		7
TB14-3	TB14-4		SOLID BUS-OPTICS ZERO VDC		7
TB14-4	TB14-3		SOLID BUS-OPTICS ZERO VDC		7
TB14-4	TB14-5		SOLID BUS-OPTICS ZERO VDC		7
TB14-4	J30-E	A 455	0 VDC OPTICS	12	7
TB14-5	TB14-4		SOLID BUS-OPTICS ZERO VDC		7
TB14-5	TB14-6		SOLID BUS-OPTICS ZERO VDC		7
TB14-6	TB14-5		SOLID BUS-OPTICS ZERO VDC		7
TB14-6	TB14-7		SOLID BUS-OPTICS ZERO VDC		7
TB14-6	J11-BB	A 295	0 VDC OPTICS	20	7

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB14	TERMINAL BOARD BUS OPTICS ZERO VDC (1900837)				
TB14-7	TB14-6		SOLID BUS-OPTICS ZERO VDC		7
TB14-7	TB14-8		SOLID BUS-OPTICS ZERO VDC		7
TB14-8	TB14-7		SOLID BUS-OPTICS ZERO VDC		7
TB14-8	TB14-9		SOLID BUS-OPTICS ZERO VDC		7
TB14-8	J43-V	A 664	OPTICS POWER 28 VDC RETURN	20	7
TB14-9	TB14-10		SOLID BUS-OPTICS ZERO VDC		7
TB14-9	TB14-8		SOLID BUS-OPTICS ZERO VDC		7
TB14-10	TB14-11		SOLID BUS-OPTICS ZERO VDC		7
TB14-10	TB14-9		SOLID BUS-OPTICS ZERO VDC		7
TB14-10	J40-U	A 627	0 VDC OPTICS	12	7
TB14-11	TB14-12		SOLID BUS-OPTICS ZERO VDC		7
TB14-11	TB14-10		SOLID BUS-OPTICS ZERO VDC		7
TB14-12	TB14-13		SOLID BUS-OPTICS ZERO VDC		7
TB14-12	TB14-11		SOLID BUS-OPTICS ZERO VDC		7
TB14-12	J40-U	A 724	0 VDC OPTICS	12	7
TB14-13	TB14-14		SOLID BUS-OPTICS ZERO VDC		7
TB14-13	TB14-12		SOLID BUS-OPTICS ZERO VDC		7
TB14-14	TB14-15		SOLID BUS-OPTICS ZERO VDC		7
TB14-14	TB14-13		SOLID BUS-OPTICS ZERO VDC		7
TB14-14	K4-10	A1115	OPTICS POWER 28 VDC RETURN	20	7
TB14-15	TB14-16		SOLID BUS-OPTICS ZERO VDC		7
TB14-15	TB14-14		SOLID BUS-OPTICS ZERO VDC		7
TB14-16	TB14-15		SOLID BUS-OPTICS ZERO VDC		7
TB14-16	TB8-16	A 972	AGE ZERO VDC	12	7
TB15	TERMINAL BOARD BUS SHIELD GROUND (1900837)				
TB15-1	TB15-2		SOLID BUS-SHIELD GROUND		3
TB15-1	J21-G	A 307	SHIELD GND	12	3
TB15-2	TB15-1		SOLID BUS-SHIELD GROUND		3

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB15	TERMINAL BOARD BUS SHIELD GROUND (1900837)				
TB15-2	TB15-3		SOLID BUS-SHIELD GROUND		3
TB15-2	E79BB	A1039	SHIELD GROUND	16	3
TB15-3	TB15-2		SOLID BUS-SHIELD GROUND		3
TB15-3	TB15-4		SOLID BUS-SHIELD GROUND		3
TB15-3	J30-K	A1076	SHIELD GROUND	16	3
TB15-4	TB15-3		SOLID BUS-SHIELD GROUND		3
TB15-4	TB15-5		SOLID BUS-SHIELD GROUND		3
TB15-4	E80BB	A1040	SHIELD GROUND	16	3
TB15-5	TB15-4		SOLID BUS-SHIELD GROUND		3
TB15-5	TB15-6		SOLID BUS-SHIELD GROUND		3
TB15-5	E78BB	A1038	SHIELD GROUND	16	3
TB15-6	TB15-5		SOLID BUS-SHIELD GROUND		3
TB15-6	TB15-7		SOLID BUS-SHIELD GROUND		3
TB15-6	E31BB	A 992	SHIELD GROUND	16	3
TB15-7	TB15-6		SOLID BUS-SHIELD GROUND		3
TB15-7	TB15-8		SOLID BUS-SHIELD GROUND		3
TB15-7	E77BB	A1037	SHIELD GROUND	16	3
TB15-8	TB15-7		SOLID BUS-SHIELD GROUND		3
TB15-8	TB15-9		SOLID BUS-SHIELD GROUND		3
TB15-8	E39BB	A1000	SHIELD GROUND	16	3
TB15-9	TB15-10		SOLID BUS-SHIELD GROUND		3
TB15-9	TB15-8		SOLID BUS-SHIELD GROUND		3
TB15-9	E40BB	A1001	SHIELD GROUND	16	3
TB15-10	TB15-11		SOLID BUS-SHIELD GROUND		3
TB15-10	TB15-9		SOLID BUS-SHIELD GROUND		3
TB15-10	E49BB	A1010	SHIELD GROUND	20	3
TB15-11	TB15-12		SOLID BUS-SHIELD GROUND		3
TB15-11	TB15-10		SOLID BUS-SHIELD GROUND		3
TB15-11	E64BB	A1024	SHIELD GROUND	16	3
TB15-12	TB15-13		SOLID BUS-SHIELD GROUND		3
TB15-12	TB15-11		SOLID BUS-SHIELD GROUND		3
TB15-12	E81BB	A1041	SHIELD GROUND	16	3

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB15	TERMINAL BOARD BUS SHIELD GROUND (1900837)				
TB15-13	TB15-14		SOLID BUS-SHIELD GROUND		3
TB15-13	TB15-12		SOLID BUS-SHIELD GROUND		3
TB15-13	E82BB	A1042	SHIELD GROUND	16	3
TB15-14	TB15-15		SOLID BUS-SHIELD GROUND		3
TB15-14	TB15-13		SOLID BUS-SHIELD GROUND		3
TB15-14	E88BB	A1049	SHIELD GROUND	16	3
TB15-15	TB15-16		SOLID BUS-SHIELD GROUND		3
TB15-15	TB15-14		SOLID BUS-SHIELD GROUND		3
TB15-15	J40-X	A1106	SHIELD GROUND	12	3
TB15-16	TB15-15		SOLID BUS-SHIELD GROUND		3
TB15-16	J30-G	A 976	SHIELD GROUND	12	3
TB16	TERMINAL BOARD BUS ISS ZERO VDC (1900837)				
TB16-1	TB16-2		SOLID BUS-ISS ZERO VOC		7
TB16-1	J5-K	A 261	0 VDC (ERROR DETECT LIGHT LO)	20	7
TB16-2	TB16-1		SOLID BUS-ISS ZERO VDC		7
TB16-2	TB16-3		SOLID BUS-ISS ZERO VDC		7
TB16-2	J21-E	A 305	0 VDC IMU	12	7
T516-3	TB16-2		SOLID BUS-ISS ZERO VDC		7
TB16-3	TB16-4		SOLID BUS-ISS ZERO VOC		7
TB16-3	J5-M	A 82	GIMBAL LOCK SIGNAL LO	20	7
TB16-4	TB16-3		SOLID BUS-ISS ZERO VDC		7
TB16-4	TB16-5		SOLID BUS-ISS ZERO VDC		7
TB16-4	J21-F	A 306	0 VDC ISS	12	7
TB16-5	TB16-4		SOLID BUS-ISS ZERO VOC		7
TB16-5	TB16-6		SOLID BUS-ISS ZERO VDC		7
TB16-5	J10-B*	A1193	0 VDC IMU	20	7
TB16-6	TB16-5		SOLID BUS-ISS ZERO VDC		7
TB16-6	TB16-7		SOLID BUS-ISS ZERO VDC		7

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB16	TERMINAL BOARD BUS ISS ZERO VDC (1900837)				
TB16-6	E87BB	A1047	ISS ZERO VDC	16	7
TB16-7	TB16-6		SOLID BUS-ISS ZERO VOC		7
TB16-7	TB16-8		SOLID BUS-ISS ZERO VOC		7
TB16-7	J40-E	A 618	0 VDC IMU	16	7
TB16-8	TB16-7		SOLID BUS-ISS ZERO VOC		7
TB16-8	TB16-9		SOLID BUS-ISS ZERO VDC		7
TB16-8	J40-S	A 625	0 VDC IMU	12	7
TB16-9	TB16-10		SOLID BUS-ISS ZERO VDC		7
TB16-9	TB16-8		SOLID BUS-ISS ZERO VDC		7
TB16-9	J40-E	A 715	0 VDC IMU	16	7
TB16-10	TB16-11		SOLID BUS-ISS ZERO VOC		7
TB16-10	TB16-9		SOLID BUS-ISS ZERO VOC		7
TB16-10	J40-T	A 626	0 VDC IMU	12	7
TB16-11	TB16-12		SOLID BUS-ISS ZERO VOC		7
TB16-11	TB16-10		SOLID BUS-ISS ZERO VOC		7
TB16-11	E92BB	A1073	ISS OPERATE POWER 0 VDC	16	7
TB16-12	TB16-13		SOLID BUS-ISS ZERO VDC		7
TB16-12	TB16-11		SOLID BUS-ISS ZERO VDC		7
TB16-12	J46-S	A 722	0 VDC IMU	12	7
TB16-13	TB16-14		SOLID BUS-ISS ZERO VOC		7
TB16-13	TB16-12		SOLID BUS-ISS ZERO VDC		7
TB16-14	TB16-15		SOLID BUS-ISS ZERO VOC		7
TB16-14	TB16-13		SOLID BUS-ISS ZERO VOC		7
TB16-14	J46-T	A 723	0 VDC IMU	12	7
TB16-15	TB16-16		SOLID BUS-ISS ZERO VOC		7
TB16-15	TB16-14		SOLID BUS-ISS ZERO VDC		7
TB16-16	TB16-15		SOLID BUS-ISS ZERO VOC		7
TB16-16	TB8-2	A 973	AGE ZERO VOC	12	7

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-10C	J40-E*	A 630L	AGE VIEWER AND LAMP POWER 400 CPS LO	20	136
TB17-10D	TB17-10E		INTERNAL BUS		136
TB17-10D	TB17-10C		INTERNAL BUS		136
TB17-10D	J21-N	A 268L	115V 400 CPS LO	20	136
TB17-10E	TB17-10F		INTERNAL BUS		136
TB17-10E	TB17-10D		INTERNAL BUS		136
TB17-10F	TB17-10E		INTERNAL BUS		136
TB17-11A	TB17-11B		INTERNAL BUS		43
TB17-11A	J34-L	A1157R	6 VOLT 400 CPS LAMP POWER HI	20	43
TB17-11B	TB17-11C		INTERNAL BUS		43
TB17-11B	TB17-11A		INTERNAL BUS		43
TB17-11C	TB17-11D		INTERNAL BUS		43
TB17-11C	TB17-11B		INTERNAL BUS		43
TB17-11D	TB17-11E		INTERNAL BUS		43
TB17-11D	TB17-11C		INTERNAL BUS		43
TB17-11E	TB17-11F		INTERNAL BUS		43
TB17-11E	TB17-11D		INTERNAL BUS		43
TB17-11F	TB17-11E		INTERNAL BUS		43
TB17-11F	J10-JJ	A1156R	400 CPS 6 V HI	20	43
TB17-12A	TB17-12B		INTERNAL BUS		7
TB17-12A	J34-N	A1157L	6 VOLT 400 CPS LAMP POWER LO	20	7
TB17-12B	TB17-12C		INTERNAL BUS		7
TB17-12B	TB17-12A		INTERNAL BUS		7
TB17-12B	J34-R	A 523L	5.5 VOLT AT 6.75 AMP 400 CPS LO	22	7
TB17-12C	TB17-12D		INTERNAL BUS		7
TB17-12C	TB17-12B		INTERNAL BUS		7
TB17-12C	K8-6	A1155W	5.5 VOLT AT 6.75 AMP 400 CPS LO	20	7
TB17-12D	TB17-12E		INTERNAL BUS		7
TB17-12D	TB17-12C		INTERNAL BUS		7
TB17-12D	J10-HH	A1124	400 CPS 6 V LO	20	7
TB17-12E	TB17-12F		INTERNAL BUS		7
TB17-12E	TB17-12D		INTERNAL BUS		7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE - NONE	REV LTR C	SHEET 239 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-12E	J34-P	A 523R	6 VOLT 400 CPS LAMP POWER LOW	22	7
TB17-12F	TB17-12E		INTERNAL BUS		7
TB17-12F	J10-KK	A1156L	400 CPS 6V LO	20	7
TB17-13A	TB17-13B		INTERNAL BUS		363
TB17-13A	J31-I*	A 463R	TRUNNION CDU 1/2X SIN HI P2	24	363
TB17-13B	TB17-13C		INTERNAL BUS		363
TB17-13B	TB17-13A		INTERNAL BUS		363
TB17-13B	J35-J*	A 83R	TRUNNION CDU 1/2X SIN HI P2	24	363
TB17-13C	TB17-13D		INTERNAL BUS		363
TB17-13C	TB17-13B		INTERNAL BUS		363
TB17-13D	TB17-13E		INTERNAL BUS		363
TB17-13D	TB17-13C		INTERNAL BUS		363
TB17-13E	TB17-13F		INTERNAL BUS		363
TB17-13E	TB17-13D		INTERNAL BUS		363
TB17-13F	TB17-13E		INTERNAL BUS		363
TB17-14A	TB17-14B		INTERNAL BUS		364
TB17-14A	J31-J*	A 463L	TRUNNION CDU 1/2X SIN LO P3	24	364
TB17-14B	TB17-14C		INTERNAL BUS		364
TB17-14B	TB17-14A		INTERNAL BUS		364
TB17-14B	J35-K*	A 83L	TRUNNION CDU 1/2X SIN LO P3	24	364
TB17-14C	TB17-14D		INTERNAL BUS		364
TB17-14C	TB17-14B		INTERNAL BUS		364
TB17-14C	J31-K*	A 271	TRUNNION CDU 1/2 X SIN LO	24	364
TB17-14D	TB17-14E		INTERNAL BUS		364
TB17-14D	TB17-14C		INTERNAL BUS		364
TB17-14E	TB17-14F		INTERNAL BUS		364
TB17-14E	TB17-14D		INTERNAL BUS		364
TB17-14F	TB17-14E		INTERNAL BUS		364
TB17-15A	TB17-15B		INTERNAL BUS		359
TB17-15A	J35-N	A 554R	25.6 KC OPTICS HI	24	359
TB17-15B	TB17-15C		INTERNAL BUS		359
TB17-15B	TB17-15A		INTERNAL BUS		359

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902281
SCALE - NONE	REV LTR C	SHEET 240 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-15C	TB17-15D		INTERNAL BUS		359
TB17-15C	TB17-15B		INTERNAL BUS		359
TB17-15C	J31-CC	A 472R	25.6 KC ENCODER EXCITATION HI	24	359
TB17-15D	TB17-15E		INTERNAL BUS		359
TB17-15D	TB17-15C		INTERNAL BUS		359
TB17-15D	J37-Y*	A 580R	25.6 KC ENCODER EXCITATION HI	24	359
TB17-15E	TB17-15F		INTERNAL BUS		359
TB17-15E	TB17-15D		INTERNAL BUS		359
TB17-15F	TB17-15E		INTERNAL BUS		359
TB17-16A	TB17-16B		INTERNAL BUS		361
TB17-16A	J35-P	A 554L	25.6 KC OPTICS LO	24	361
TB17-16B	TB17-16C		INTERNAL BUS		361
TB17-16B	TB17-16A		INTERNAL BUS		361
TB17-16C	TB17-16D		INTERNAL BUS		361
TB17-16C	TB17-16B		INTERNAL BUS		361
TB17-16C	J31-DD	A 472L	25.6 KC ENCODER EXCITATION LO	24	361
TB17-16D	TB17-16E		INTERNAL BUS		361
TB17-16D	TB17-16C		INTERNAL BUS		361
TB17-16D	J37-Z*	A 580L	25.6 KC ENCODER EXCITATION LO	24	361
TB17-16E	TB17-16F		INTERNAL BUS		361
TB17-16E	TB17-16D		INTERNAL BUS		361
TB17-16F	TB17-16E		INTERNAL BUS		361
TB17-17A	TB17-17B		INTERNAL BUS		230
TB17-17A	J24-H*	A 363L	TRUNNION CDU 1/4X SINE LO	24	230
TB17-17B	TB17-17C		INTERNAL BUS		230
TB17-17B	TB17-17A		INTERNAL BUS		230
TB17-17B	J31-F*	A 461L	TRUNNION CDU 1/4X SIN LO	24	230
TB17-17C	TB17-17D		INTERNAL BUS		230
TB17-17C	TB17-17B		INTERNAL BUS		230
TB17-17C	J42-U*	A 688L	TRUNNION CDU 1/4 X SIN LO	24	230
TB17-17D	TB17-17E		INTERNAL BUS		230
TB17-17D	TB17-17C		INTERNAL BUS		230

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE - NONE	REV LTR C	SHEET 241 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-17E	TB17-17F		INTERNAL BUS		230
TB17-17E	TB17-17D		INTERNAL BUS		230
TB17-17F	TB17-17E		INTERNAL BUS		230
TB17-18A	TB17-18B		INTERNAL BUS		228
TB17-18A	J24-G*	A 363R	TRUNNION CDU 1/4X SINE HI	24	228
TB17-18B	TB17-18C		INTERNAL BUS		228
TB17-18B	TB17-18A		INTERNAL BUS		228
TB17-18B	J31-E*	A 461R	TRUNNION CDU 1/4X SIN HI	24	228
TB17-18C	TB17-18D		INTERNAL BUS		228
TB17-18C	TB17-18B		INTERNAL BUS		228
TB17-18C	J42-T*	A 688R	TRUNNION CDU 1/4 X SIN HI	24	228
TB17-18D	TB17-18E		INTERNAL BUS		228
TB17-18D	TB17-18C		INTERNAL BUS		228
TB17-18E	TB17-18F		INTERNAL BUS		228
TB17-18E	TB17-18D		INTERNAL BUS		228
TB17-18F	TB17-18E		INTERNAL BUS		228
TB17-19A	TB17-19B		INTERNAL BUS		271
TB17-19A	J38-Y*	A 597R	25.6 KC ENCODER EXCITATION LO	24	271
TB17-19B	TB17-19C		INTERNAL BUS		271
TB17-19B	TB17-19A		INTERNAL BUS		271
TB17-19B	J32-Y*	A 491R	25.6 KC ENCODER EXCITATION LO	24	271
TB17-19C	TB17-19D		INTERNAL BUS		271
TB17-19C	TB17-19B		INTERNAL BUS		271
TB17-19C	J33-Y*	A 512R	25.6 KC ENCODER EXCITATION LO	24	271
TB17-19D	TB17-19E		INTERNAL BUS		271
TB17-19D	TB17-19C		INTERNAL BUS		271
TB17-19D	J25-W	A 386L	2.5 VOLT 25.6 KC LO	24	271
TB17-19E	TB17-19F		INTERNAL BUS		271
TB17-19E	TB17-19D		INTERNAL BUS		271
TB17-19F	TB17-19E		INTERNAL BUS		271
TB17-20A	TB17-20B		INTERNAL BUS		270
TB17-20A	J38-Z*	A 597L	25.6 KC ENCODER EXCITATION HI	24	270

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE - NONE	REV LTR C	SHEET 242 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-20B	TB17-20C		INTERNAL BUS		270
TB17-20B	TB17-20A		INTERNAL BUS		270
TB17-20B	J32-Z*	A 491L	25.6 KC ENCODER EXCITATION HI	24	270
TB17-20C	TB17-20D		INTERNAL BUS		270
TB17-20C	TB17-20B		INTERNAL BUS		270
TB17-20C	J33-Z*	A 512L	25.6 KC ENCODER EXCITATION HI	24	270
TB17-20D	TB17-20E		INTERNAL BUS		270
TB17-20D	TB17-20C		INTERNAL BUS		270
TB17-20D	J25-V	A 386R	2.5 VOLT 25.6 KC HI	24	270
TB17-20E	TB17-20F		INTERNAL BUS		270
TB17-20E	TB17-20D		INTERNAL BUS		270
TB17-20F	TB17-20E		INTERNAL BUS		270
	XF1 FUSE HOLDER (1015873-008) WITH FUSE (MS90078-13-1)				
XF1-1	K3-3	A 735	AGE 28 VDC VARIABLE POWER HI	16	524
XF1-2	TB5-7	A 977	28 VDC AGE POWER HI	16	524
	XF2 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-6-1)				
XF2-1	K2-A02	A 731	AGE 28 VDC VARIABLE POWER HI	12	524
XF2-2	TB5-8	A 978	28 VDC AGE POWER HI	12	524
	XF3 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR C | SHEET 243 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) XF3	FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				
XF3-1	K4-3	A 740	AGE 28 VDC VARIABLE POWER HI	16	524
XF3-2	TB5-9	A 979	28 VDC AGE POWER HI	16	524
	XF4 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				
XF4-1	K5-3	A 744	AGE 28 VDC VARIABLE POWER HI	16	524
XF4-2	TB5-10	A 980	28 VDC AGE POWER HI	16	524
	XF5 FUSE HOLDER (1015873-005) WITH FUSE (1015973-10)				
XF5-1	2V 3200 CPS	A1108R	2 V 3200 CPS HI	20	245
XF5-2	J3-GG	A 59R	3200 CPS 2V HI		
	XF17 FUSE HOLDER (1015873-005) WITH FUSE (MS90078-2-1)				
XF17-1	J34-A	A 272W	1.5 VOLT 400 CPS 0 PH	24	39
XF17-2	J10-G*	A1056W	400 CPS 1.5 V 0 PH	24	39
	XF18 FUSE HOLDER (1015873-005) WITH FUSE (MS90078-2-1)				
XF18-1	J34-E	A 273W	1.5 VOLT 400 CPS PI PH	24	42
XF18-2	J10-H*	A1057W	400 CPS 1.5 V PI PH	24	42

MANNED SPACECRAFT CENTER [illegible] | SIZE A | 1902281 | SCALE [illegible]NE | REV LTR C | SHEET 244 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
	XF19 FUSE HOLDER (1015873-008) WITH FUSE (MS90079-4-1)				
XF19-1	J7-AA	A 145	27 VDC HI OIA ON	20	525
XF19-1	J7-C	A1083	27 VDC HI OIA ON	20	525
XF19-2	TB7-11E	A1098	27 VDC RELAY AND LAMP POWER HI	20	525
XF19-2	TB7-8C	A1099	27 VDC RELAY AND LAMP POWER HI	20	525
	XF20 FUSE HOLDER (1015873-008) WITH FUSE (MS90078-15-1)				
XF20-1	J7-C*	A1152	28 VDC AGE HI	20	524
XF20-2	TB5-7	A 128	28 VDC AGE POWER REMOTE SENSE HI	20	524

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE - NONE | REV LTR C | SHEET 245 OF 245

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REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
M		SEE SHEET 1 FOR REVISION RECORD			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. ALL RELAYS ARE IN THE UNENERGIZED OR "OFF" POSITION.
4. VALUES ARE IN OHMS AND MICROFARADS.
5. BARS PLACED OVER LETTERS OR ASTERISKED SUFFIXES INDICATE LOWER CASE LETTERS.
6. UNLESS OTHERWISE SPECIFIED ALL CONDUCTORS ARE WHITE.
7. THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR COLOR.
   - A — FROM END SHIELD
   - B — TO END SHIELD
   - L — WHT WITH BLUE TRACER
   - R — WHT WITH RED TRACER
   - W — WHITE SHIELDED
   - Y — WHT WITH YELLOW TRACER
8. LAST NETWORK NUMBER USED 622
9. DRAWINGS FOR REFERENCE:

1901959-011	ASSEMBLY DRAWING
1902282	WIRING HARNESS A
1901889	WIRE LIST A A
1900832	WIRE LIST A A
1900835	WIRE LIST A A

10. GROUND SYMBOLS:
    - SHIELD GRD (TB 15)
    - OVDC IMU (TB 16)
    - OVDC OPTICS (TB 14)
    - OVDC AGC (TB 10)
    - AGE PWR GRD (TB 8)
    - RELAY & LAMP PWR LO
    - 400 CPS LO
11. NETWORK NUMBERS INDICATE CIRCUIT CONTINUITY BETWEEN AND THRU PARTS WHERE RESISTANCE IS CONSIDERED ZERO FOR TEST PURPOSES.
12. FOR CORRELATION OF CIRCUIT POINTS BETWEEN THE COMPOSITE LIST AND THEIR CIRCUITS SHOWN SCHEMATICALLY, USE THE NETWORK NUMBERS AND TABLE I FOR LOCATION.
13. NETWORK NUMBERS OMITTED FROM TABLE I ARE NOT SHOWN SCHEMATICALLY.

TABLE I

NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.	NET. NO	SH NO.
1	6							275	16								
2	16	43	8	133	6	187	17	276	16	336	13	429	17	518	10	553	5	590	15
3	7	45	12	134	6	188	17	278	16	337	12	430	17	519	6	554	5	591	15
4	16	47	12	135	8	189	17	280	16	338	12	431	17	520	10	555	4	592	4
5	16	49	12	136	8	190	17	283	8	339	14	450	10	521	18	556	5	593	5
6	10	51	12	137	6	192	17	285	15	340	14	451	10	522	18	557	5	594	16
7	6,7,8,10	52	12	139	13	194	17	287	15	341	11	454	10	523	4	558	5	595	16
8	6	53	12	141	13	198	9	288	16	342	11	456	10	524	6	559	5	596	16
9	17	54	16	143	11	199	17	290	15	343	13	470	6	525	4	560	5	597	4
10	6	55	14	145	11	200	9	291	15	344	13	471	17	526	4	561	5	598	5
11	6	56	16	146	16	201	17	295	15	345	12	492	18	527	4	562	5	599	4
12	5	57	14	148	16	202	17	296	5	346	12	493	18	528	4	563	5	600	15
13	5	58	15	150	16	204	17	297	15	347	14	494	8	529	4	564	5	601	4
14	5	59	15	151	11	206	8	299	15	348	14	495	7	530	4	565	5	602	15
15	5	60	15	152	16	224	17	300	15	349	11	496	8	531	4	566	5	603	4
17	17	61	15	153	11	226	17	302	10	350	11	497	18	532	4	567	5	606	16
18	5	~~63~~	~~7~~	154	15	228	17	303	10	351	6	498	18	533	4	568	5	607	4
19	17	70	10	155	16	230	17	315	10	352	7	499	8	534	4	569	5	608	8
20	5	73	10	156	11	245	10	318	7	353	7	500	18	535	18	570	5	609	4
21	5	80	10	157	15	248	10	319	7	354	7	501	18	536	18	571	5	610	4
24	5	83	10	158	16	250	4	320	7	355	4,5,6	502	8	537	18	572	4		
25	9	88	6	160	16	256	15	321	7	356	5	503	8	538	18	573	17		
26	9	90	7	162	15	259	15	322	7	359	10	504	18	539	18	574	16		
27	8	103	12	163	16	260	9	323	7	360	8,10	505	8	540	18	575	4		
28	14	105	12	165	13	261	15	324	7	361	10	506	18	541	18	576	4		
29	14	107	9	166	16	262	16	325	7	363	17	507	18	542	18	577	4		
30	15	108	14	168	13	263	10	326	10	364	17	508	8	543	18	580	17		
31	14	109	9	169	16	264	16	327	12	381	8	509	18	544	18	581	4		
32	15	110	14	170	11	265	8	328	13	404	4	510	18	545	18	582	16		
33	14	111	11	172	11	266	16	329	12	405	10	511	18	546	18	583	16		
34	15	112	11	180	13	267	10	330	13	413	4	512	18	547	18	584	15		
36	15	114	13	181	10	268	9	331	14	417	4	513	18	548	18	585	15		
38	16	116	13	182	13	269	9	332	14	425	17	514	18	549	18	586	15		
39	8	130	6	184	13	270	10	333	11	426	17	515	18	550	4	587	4		
41	16	131	6	185	9	271	10	334	11	427	17	516	18	551	4	588	5		
42	8	132	6	186	9	274	15	335	13	428	17	517	18	552	5	589	15		

NEXT ASSY	USED ON
	1901959-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 3 MAR 65 DATE

CHECKED 11 MAR 65

APPROVED 11 MAR 65

APPROVED 2-25-65

NASA APPROVAL APR 26 1965

MIT APPROVAL

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

GSE JUNCTION BOX SCHEMATIC DIAGRAM

CODE IDENT NO. | SIZE D | 1902281

SCALE — | SHEET 3 OF 245

MIL 1077D-A

1902281

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
M	M	SEE SHEET 1 FOR REVISION RECORD			

27V DC HI OIA ON
27V DC RLP ON
AGE POWER TRANSFER
AGE PWR TRANSFER LO
AGC POWER ON LAMP
27V DC HI AGC
OPTICS POWER ON LAMP
27V DC HI OPTICS
ISS STBY ON IND
27V DC HI ISS STBY
27 VDC HI ISS OPERATE (IND, CMND)
CONTINUITY TEST PROCEED VOLTAGE
CONTINUITY TEST SOURCE VOLTAGE
CONTINUITY TEST PROCEED LIGHT
CONTINUITY IND
J7
FI9
8 AMP
XFI9
J47
F AGC COMMON
K17 TB12
A2CR2
A2CR1
A1CR10
A1CR2
A1CR3
A1CR4
A1CR5
A1CR1
K1
K2
K3
K4
K5
K6
K7
K8
K10
K18
K25
K29
K38
K42
K43
K44
K45
K46
K47
K48
K49
K50
K51
K52
K53
K54
K57
K58
K59
K60
K61
K62
K63
K64
K65
K66
K67
K68
A1C1 1μf
A1R1 51Ω
INTERRUPTER
OFF-NORMAL
LEVEL 1 W
LEVEL 2 W
LEVEL 3 W
LEVEL 4 W
LEVEL 5 W
LEVEL 2 (POS 6, 9, 10, 17, 18, 21)
J34 FOR GSE USE ONLY
Y + 28V DC M & DV
J25 d 28V DC FOR M & DV
J43 M & DV & INTEGRAL LIGHTING PWR 28V DC HI

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DO NOT SCALE THIS DRAWING	ACSP PN			
MATERIAL —	DRAWN J.A. Swanek 3 MAR 65	GSE JUNCTION BOX SCHEMATIC DIAGRAM RELAY COMMANDS - 27V DC RELAY & LAMP POWER DISTRIBUTION		
1901959-011	CHECKED Gaylor 11 MAR 65			
NEXT ASSY / USED ON	APPROVAL 11 MAR 65			
APPLICATION	APPROVAL			
CONTRACT NAS 9-497	NASA APPROVAL MAR 28 1965	CODE IDENT NO.	SIZE D	1902281
	MIT APPROVAL	SCALE —	SHEET 4 OF 245	

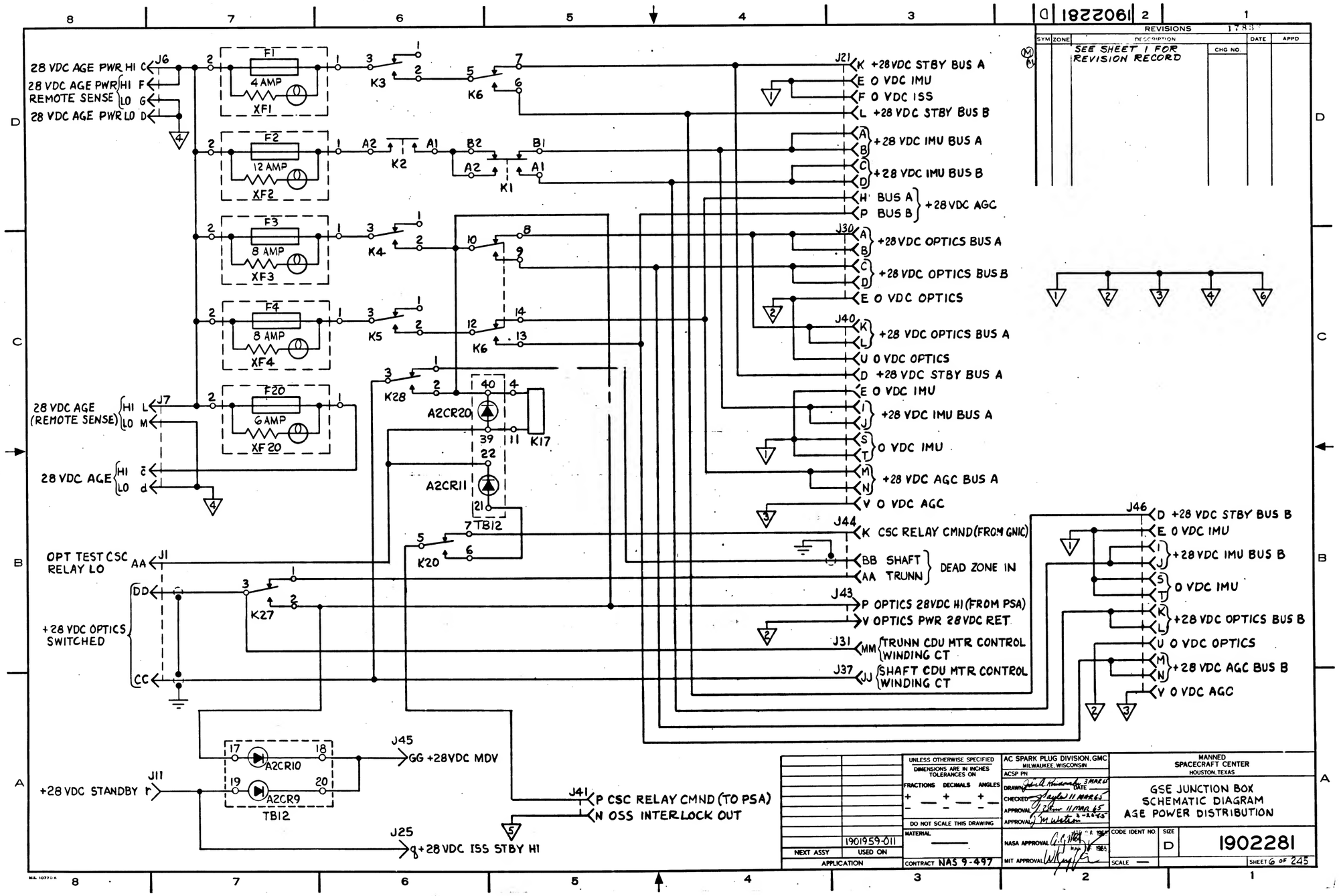
REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD		

PIPA LOOPS INHIBIT { IND 9 J9, CMND h } → K22, K40, K41
X GYRO ERROR TO MG SA k
Y GYRO ERROR TO MG SA m
IG POS SEL IND r → K45
ENABLE IG IMU RSVR SIG TO GPC s → K44, K46, K42
MG CDU LOOP INHIBIT u
IG CDU LOOP INHIBIT q
MG POS SEL IND v → K49
ENABLE MG IMU RSVR SIG TO GPC w → K48, K50
OG CDU LOOP INHIBIT x
OG POS SELECTED IND y → K53
ENABLE OG IMU RSVR SIG TO GPC z → K52, K54, K57, K55
IRIG TEST SELECTED KK
IG CDU TEST COMMAND B
X GYRO ERROR TO OG SA j
OG CDU TEST COMMAND Y
MG CDU TEST COMMAND t
INVERT Z GYRO ERROR n → K56, K61, K65

SHAFT LOOP TEST CONTROL S J1 → K19, TB12 A2CR4, K20
OPTICS TEST COMMAND X → K30
SCT MDA DISABLE { HI U, LO V } TB12 A2CR8, K26
TRUNNION LOOP TEST CONTROL V
ENABLE SHAFT CDU MTR EE
OPTICS TEST LATCH VOLTAGE P
ENABLE TRUNN CDU MTR FF → TB12 A2CR6, K27, K28, TB12 A2CR7
27V DC RLP LO OSS ONLY R J7 → J30 M, J35 y } 27V DC RLP LO OSS ONLY

NEXT ASSY	1901959-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
USED ON		DO NOT SCALE THIS DRAWING	ACSP PN	GSE JUNCTION BOX SCHEMATIC DIAGRAM RELAY COMMAND	
APPLICATION		MATERIAL —	DRAWING DATE 3 MAR 65		
		CONTRACT NAS 9-497	CHECKED 11 MAR 65		
			APPROVAL 11 MAR 65		
			APPROVAL 3-25-65		
			NASA APPROVAL MAR 26 1965	CODE IDENT NO.	SIZE D — 1902281
			MIT APPROVAL	SCALE —	SHEET 5 OF 245

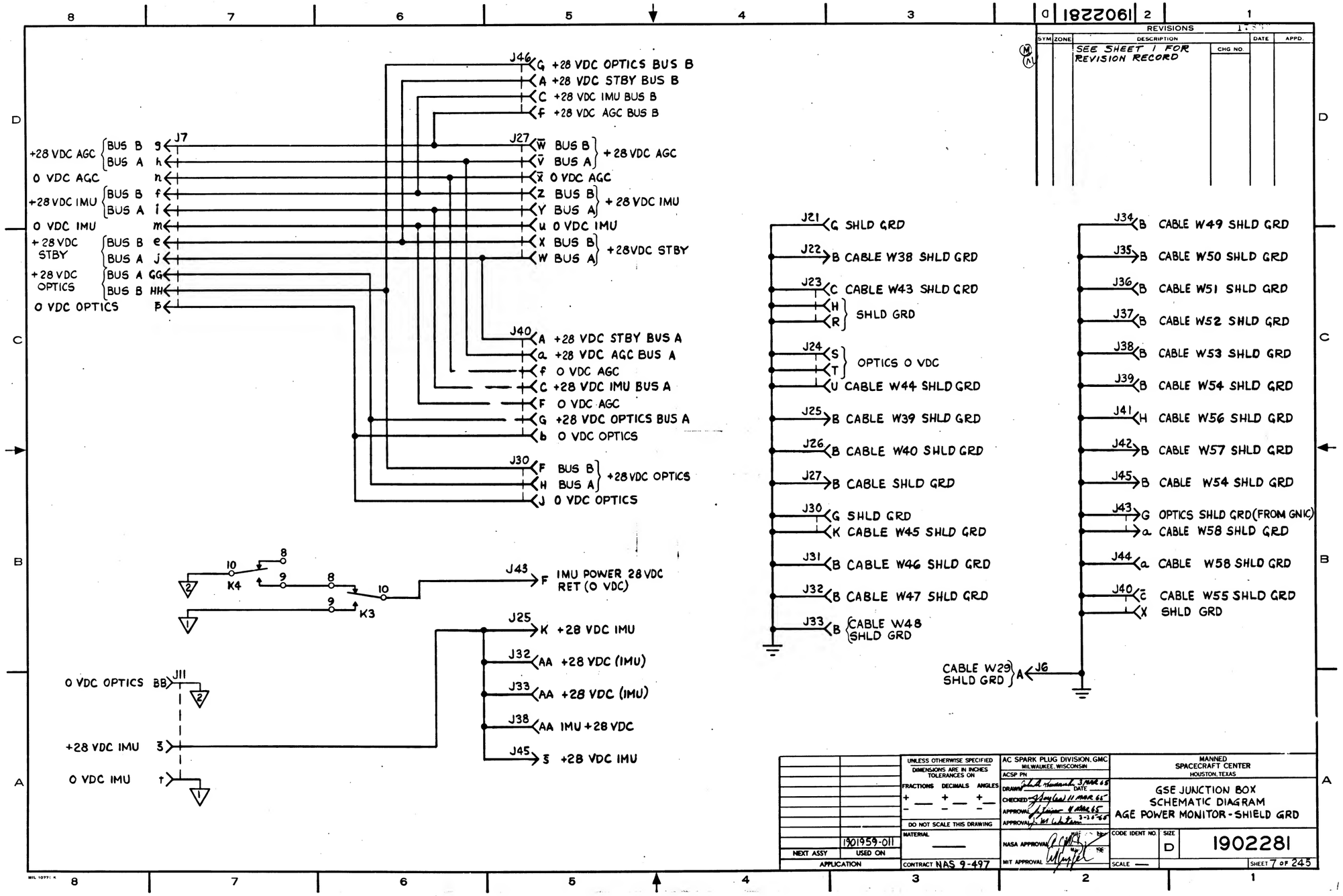
MIL 10770K


28 VDC AGE PWR HI C
28 VDC AGE PWR HI F
REMOTE SENSE LO G
28 VDC AGE PWR LO D
J6
F1
4 AMP
XF1
K3
K6
F2
12 AMP
XF2
A2
A1
K2
B2
B1
K1
F3
8 AMP
XF3
K4
F4
8 AMP
XF4
K5
K6
F20
6 AMP
XF 20
28 VDC AGE (REMOTE SENSE) HI L LO M
J7
28 VDC AGE HI c LO d
K28
A2CR20
K17
A2CR11
TB12
K20
OPT TEST CSC RELAY LO AA
J1
DD
CC
+28 VDC OPTICS SWITCHED
K27
A2CR10
A2CR9
TB12
+28 VDC STANDBY r
J11
J45
GG +28VDC MDV
J25
q +28 VDC ISS STBY HI
J41
P CSC RELAY CMND (TO PSA)
N OSS INTERLOCK OUT
J21
K +28VDC STBY BUS A
E 0 VDC IMU
F 0 VDC ISS
L +28 VDC STBY BUS B
+28 VDC IMU BUS A
+28 VDC IMU BUS B
BUS A
BUS B
+28 VDC AGC
J30
+28 VDC OPTICS BUS A
+28 VDC OPTICS BUS B
E 0 VDC OPTICS
J40
+28 VDC OPTICS BUS A
U 0 VDC OPTICS
D +28 VDC STBY BUS A
E 0 VDC IMU
+28 VDC IMU BUS A
0 VDC IMU
+28 VDC AGC BUS A
V 0 VDC AGC
J44
K CSC RELAY CMND (FROM GNIC)
BB SHAFT
AA TRUNN
DEAD ZONE IN
J43
P OPTICS 28VDC HI (FROM PSA)
V OPTICS PWR 28VDC RET
J31
MM TRUNN CDU MTR CONTROL WINDING CT
J37
JJ SHAFT CDU MTR CONTROL WINDING CT
J46
D +28 VDC STBY BUS B
E 0 VDC IMU
+28 VDC IMU BUS B
0 VDC IMU
+28 VDC OPTICS BUS B
U 0 VDC OPTICS
+28 VDC AGC BUS B
V 0 VDC AGC
REVISIONS
SYM ZONE DESCRIPTION CHG NO DATE APPD
SEE SHEET 1 FOR REVISION RECORD
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497
NEXT ASSY 1901959-011
USED ON
APPLICATION
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 3 MAR 65
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL 2-20-65
NASA APPROVAL
MIT APPROVAL
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
GSE JUNCTION BOX SCHEMATIC DIAGRAM AGE POWER DISTRIBUTION
CODE IDENT NO SIZE D 1902281
SCALE —
SHEET 6 OF 245
1902281

1902281 D

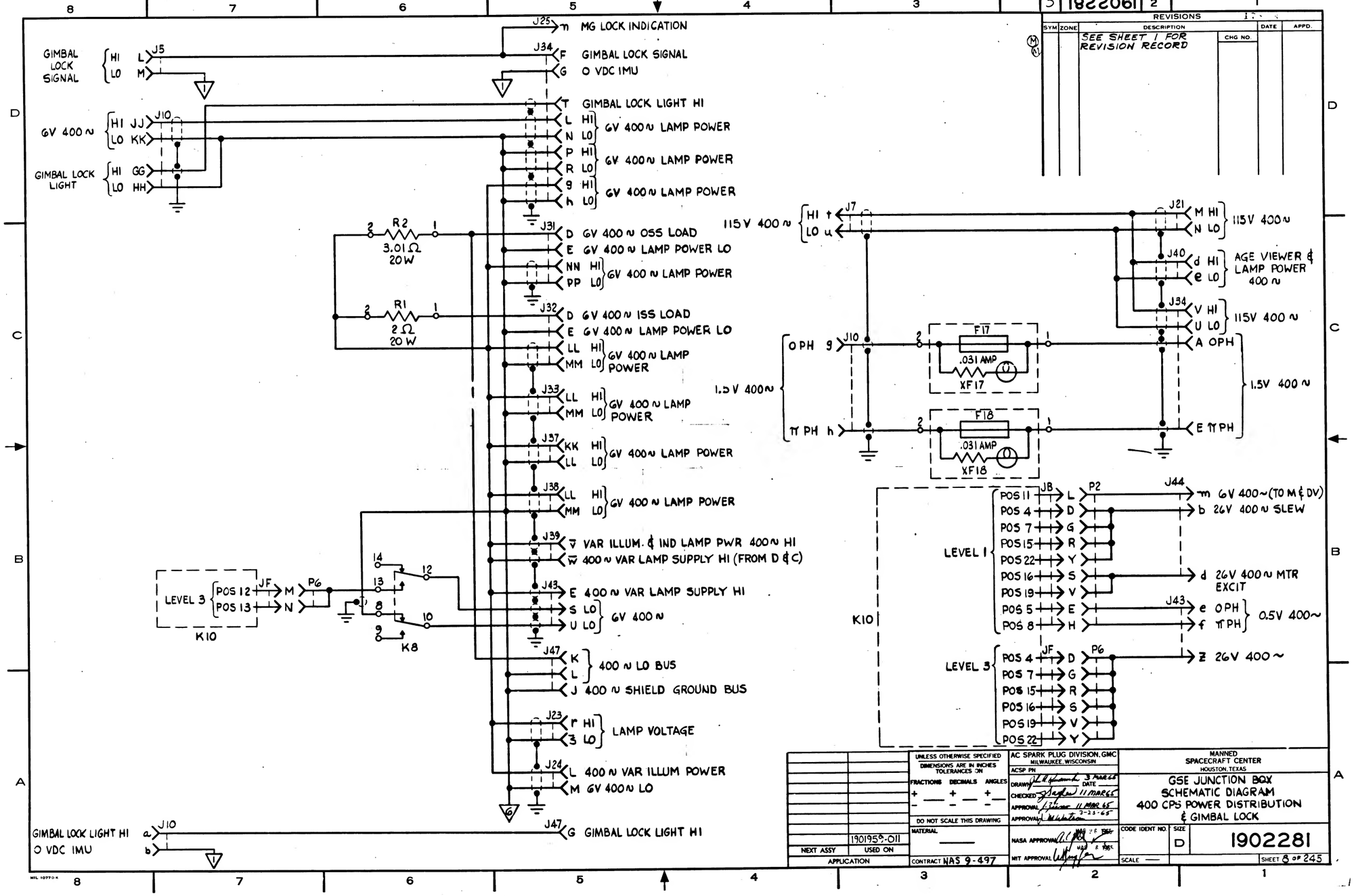
REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		MATERIAL —	DRAWN DATE 3 MAR 65 CHECKED 11 MAR 65 APPROVAL 4 MAR 65 APPROVAL	GSE JUNCTION BOX SCHEMATIC DIAGRAM AGE POWER MONITOR - SHIELD GRD
NEXT ASSY 1901959-011	USED ON	CONTRACT NAS 9-497	NASA APPROVAL MIT APPROVAL	CODE IDENT NO. SIZE D 1902281
APPLICATION				SCALE — SHEET 7 OF 245

MIL 1077C K



REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			

NEXT ASSY	1901958-011
USED ON	
APPLICATION	

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DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. H. Schmidt 3 MAR 65 DATE

CHECKED J. Stephen 11 MAR 65

APPROVAL J. Stevens 11 MAR 65

APPROVAL W. Mathews 3-25-65

NASA APPROVAL W. R. Hale MAR 26 1965

MIT APPROVAL

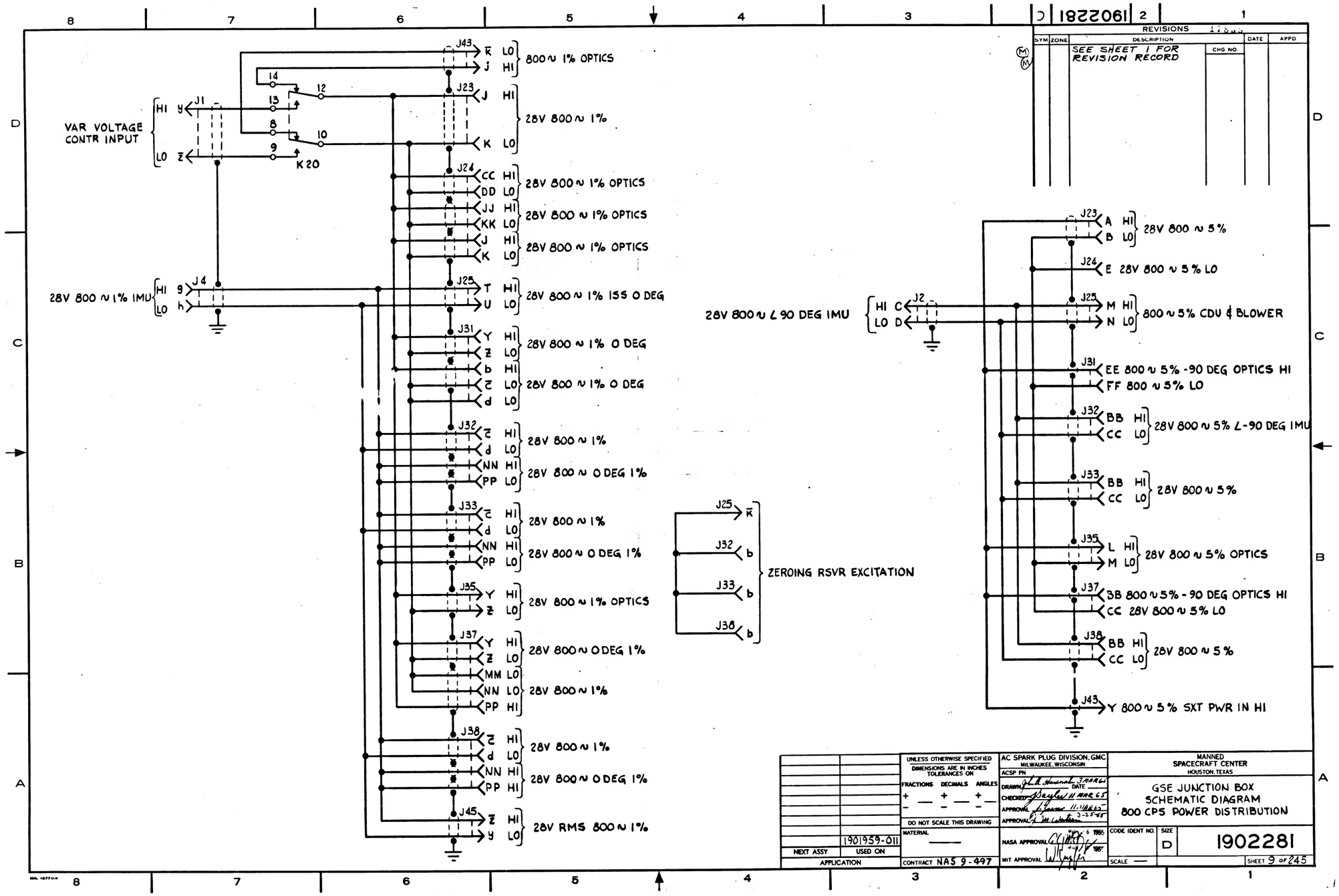
MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GSE JUNCTION BOX SCHEMATIC DIAGRAM 400 CPS POWER DISTRIBUTION & GIMBAL LOCK

CODE IDENT NO. | SIZE D | 1902281

SCALE — | SHEET 5 OF 245

MIL 1077D-X



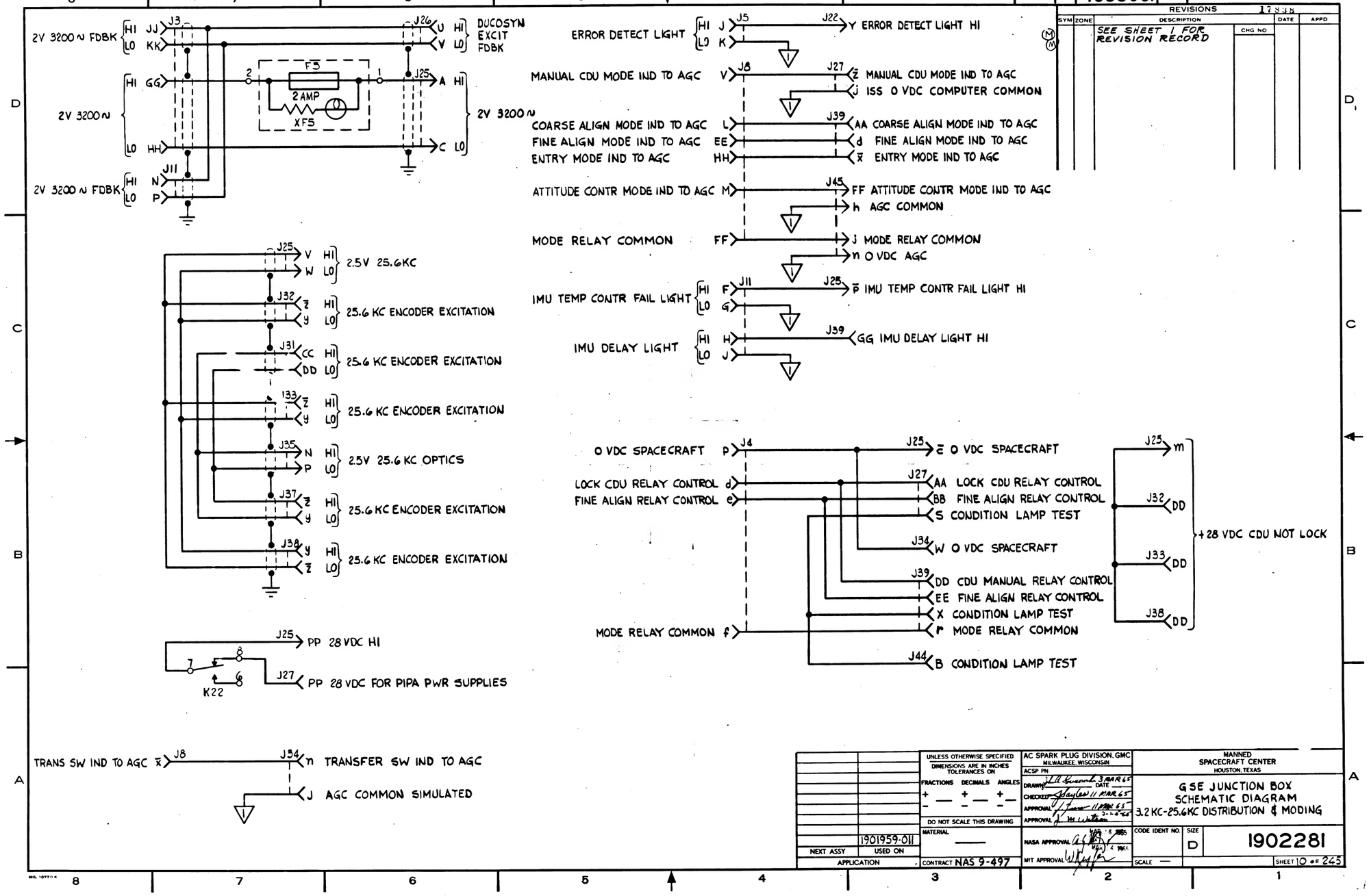
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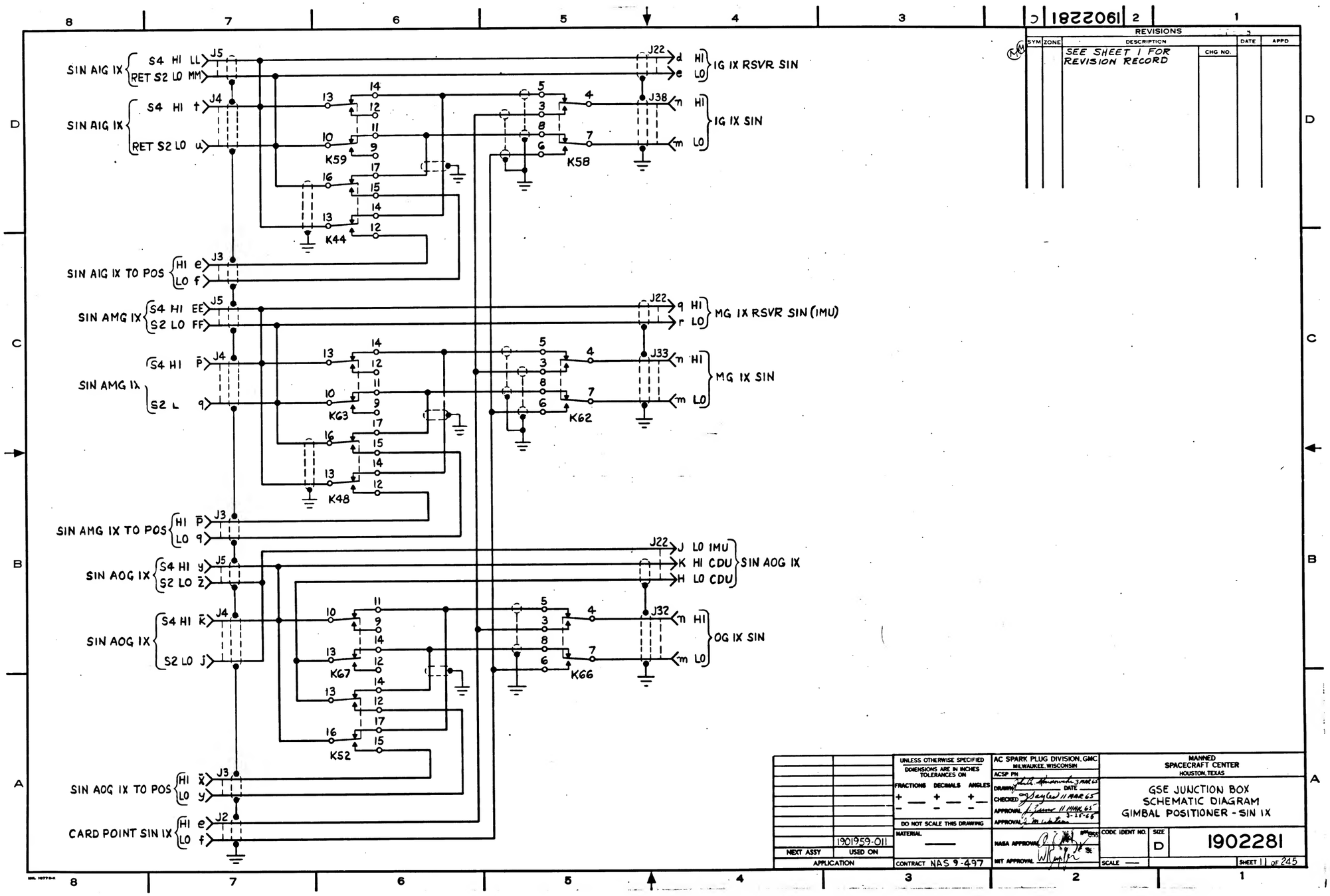
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + —	DO NOT SCALE THIS DRAWING
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NEXT ASSY / USED ON	
APPLICATION	CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	
ACSP PN	
DRAWN J. H. Sommers 3 MAR 65 DATE	
CHECKED Dwyer 11 MAR 65	
APPROVAL J. Evans 11 MAR 65	
APPROVAL J. McWatters 3-25-65	
NASA APPROVAL 6 1965	
MIT APPROVAL	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
GSE JUNCTION BOX SCHEMATIC DIAGRAM 800 CPS POWER DISTRIBUTION	
CODE IDENT NO.	SIZE D
1902281	
SCALE —	SHEET 9 OF 245

1902281 C


2V 3200 ~ FDBK HI JJ LO KK
J3
J26 U HI V LO DUCOSYN EXCIT FDBK
F5
2 AMP
XF5
2V 3200 ~ HI GG LO HH
J25 A HI C LO
2V 3200 ~
2V 3200 ~ FDBK HI N LO P
J11
J25 V HI W LO 2.5V 25.6KC
J32 z HI y LO 25.6 KC ENCODER EXCITATION
J31 CC HI DD LO 25.6 KC ENCODER EXCITATION
J33 z HI y LO 25.6 KC ENCODER EXCITATION
J35 N HI P LO 2.5V 25.6 KC OPTICS
J37 z HI y LO 25.6 KC ENCODER EXCITATION
J38 y HI z LO 25.6 KC ENCODER EXCITATION
J25 PP 28 VDC HI
K22
J27 PP 28 VDC FOR PIPA PWR SUPPLIES
TRANS SW IND TO AGC x̄ J8
J34 n TRANSFER SW IND TO AGC
J AGC COMMON SIMULATED
ERROR DETECT LIGHT HI J HI K LO
J5
J22 Y ERROR DETECT LIGHT HI
MANUAL CDU MODE IND TO AGC V
J8
J27 z̄ MANUAL CDU MODE IND TO AGC
j ISS 0 VDC COMPUTER COMMON
COARSE ALIGN MODE IND TO AGC L
FINE ALIGN MODE IND TO AGC EE
ENTRY MODE IND TO AGC HH
J39 AA COARSE ALIGN MODE IND TO AGC
d FINE ALIGN MODE IND TO AGC
x̄ ENTRY MODE IND TO AGC
ATTITUDE CONTR MODE IND TO AGC M
J45 FF ATTITUDE CONTR MODE IND TO AGC
h AGC COMMON
MODE RELAY COMMON FF
j MODE RELAY COMMON
n 0 VDC AGC
IMU TEMP CONTR FAIL LIGHT HI F LO G
J11
J25 p̄ IMU TEMP CONTR FAIL LIGHT HI
IMU DELAY LIGHT HI H LO J
J39 GG IMU DELAY LIGHT HI
0 VDC SPACECRAFT p
J4
J25 z̄ 0 VDC SPACECRAFT
LOCK CDU RELAY CONTROL d
FINE ALIGN RELAY CONTROL e
J27 AA LOCK CDU RELAY CONTROL
BB FINE ALIGN RELAY CONTROL
S CONDITION LAMP TEST
J34 W 0 VDC SPACECRAFT
J39 DD CDU MANUAL RELAY CONTROL
EE FINE ALIGN RELAY CONTROL
X CONDITION LAMP TEST
MODE RELAY COMMON f
r MODE RELAY COMMON
J44 B CONDITION LAMP TEST
J25 m
J32 DD
J33 DD
J38 DD
+28 VDC CDU NOT LOCK
REVISIONS
SYM ZONE DESCRIPTION CHG NO DATE APPD
SEE SHEET 1 FOR REVISION RECORD
1902281
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
NEXT ASSY 1901959-011 USED ON
APPLICATION
CONTRACT NAS 9-497
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL
NASA APPROVAL
MIT APPROVAL
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
GSE JUNCTION BOX SCHEMATIC DIAGRAM
3.2 KC-25.6KC DISTRIBUTION & MODING
CODE IDENT NO. SIZE D 1902281
SCALE — SHEET 10 OF 245
MIL 19770 K



REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

1902281 C 2

NEXT ASSY	USED ON	1901959-011			
APPLICATION		CONTRACT NAS 9-497			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + —
DO NOT SCALE THIS DRAWING
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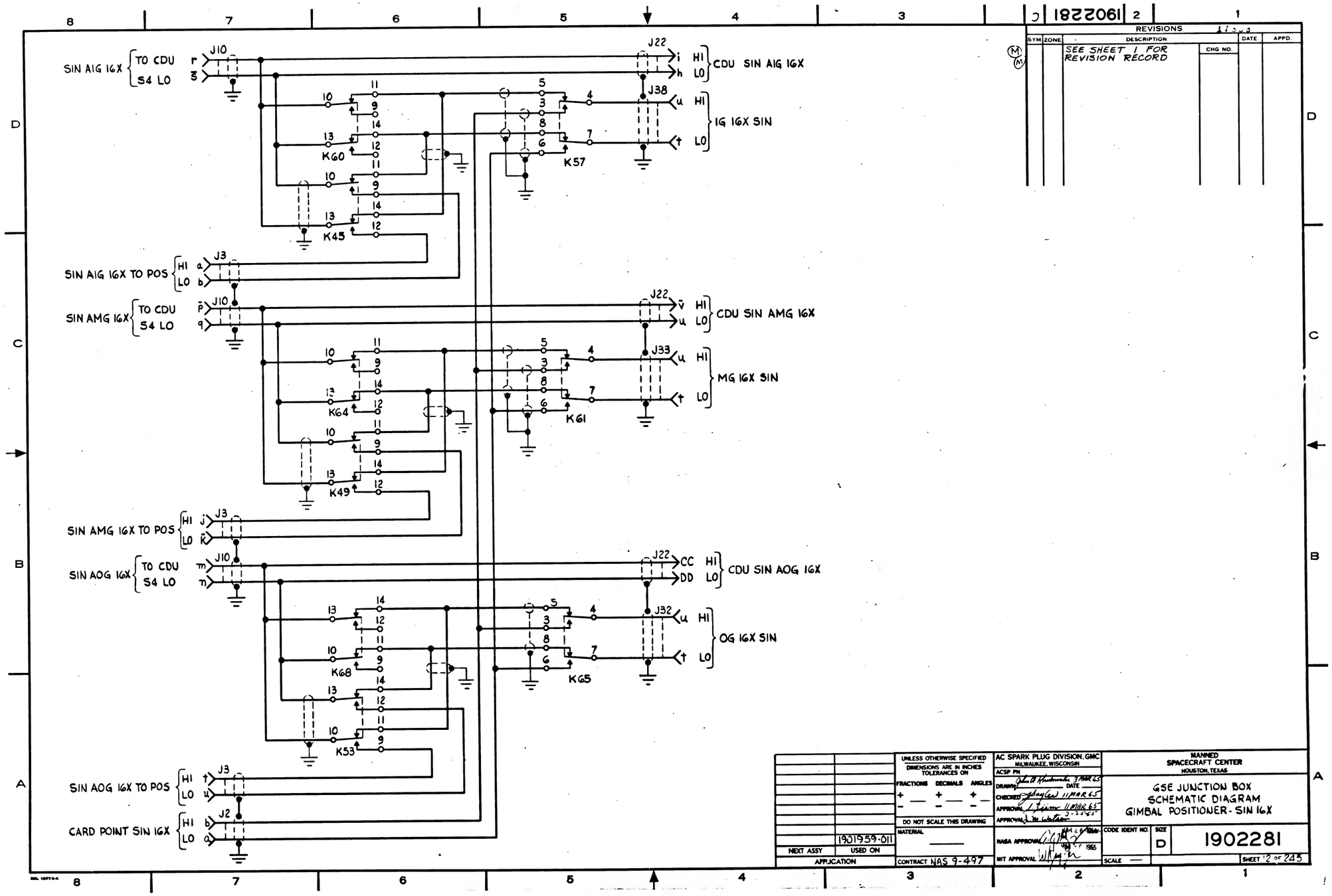
AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED 11 MAR 65
APPROVAL 11 MAR 65
APPROVAL 3-15-65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

GSE JUNCTION BOX SCHEMATIC DIAGRAM GIMBAL POSITIONER - SIN IX

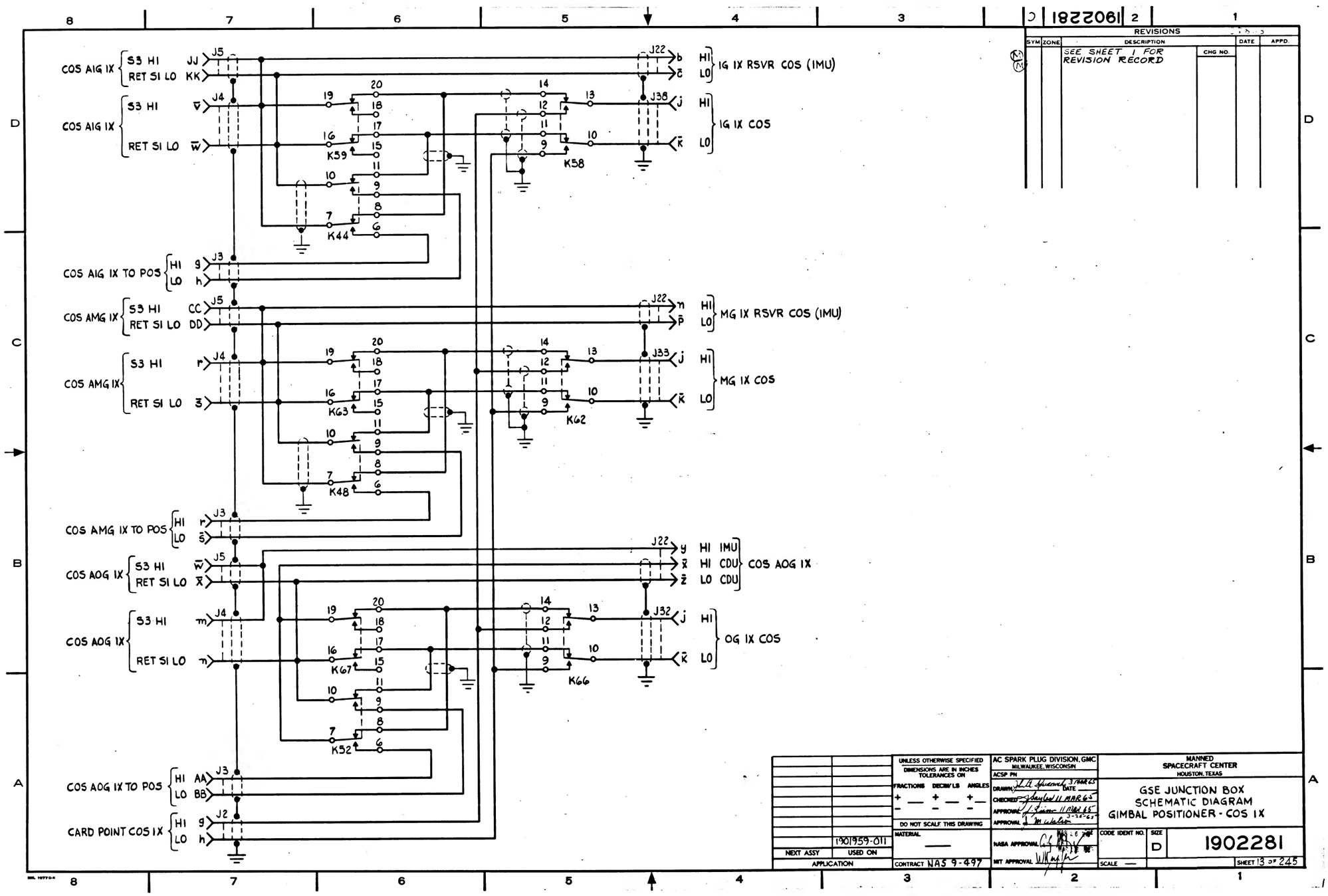
CODE IDENT NO. | SIZE D | 1902281

SCALE — | SHEET 11 OF 245



REVISIONS					
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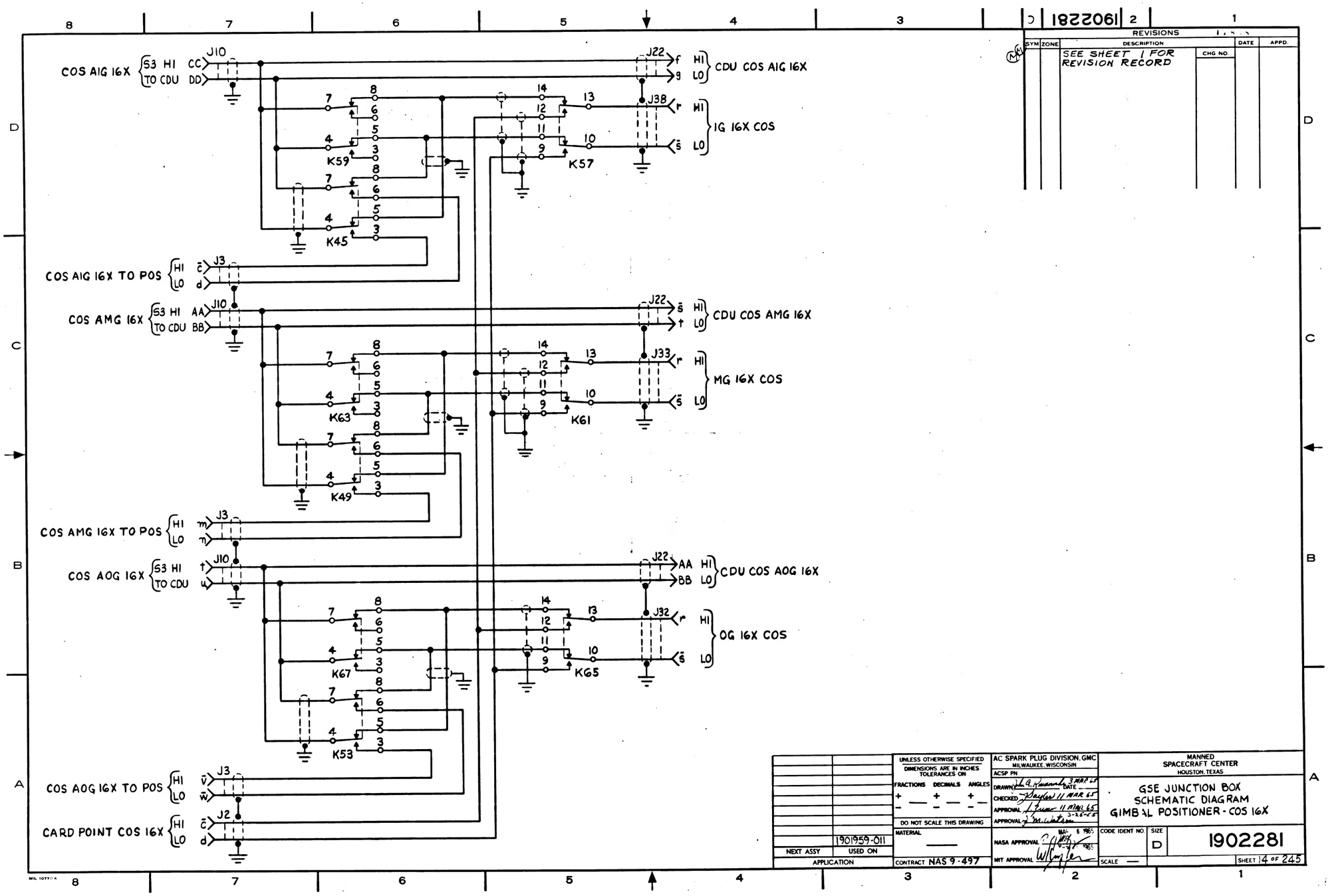
NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		MATERIAL —	DRAWING DATE	GSE JUNCTION BOX SCHEMATIC DIAGRAM GIMBAL POSITIONER - SIN 1GX
APPLICATION	1901959-011	CONTRACT NAS 9-497	CHECKED 11MAR65 APPROVAL 11MAR65 APPROVAL	CODE IDENT NO. SIZE D 1902281
			NASA APPROVAL MIT APPROVAL	SCALE — SHEET 12 OF 225



REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD		

1902281 C

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN DATE CHECKED 11 MAR 65 APPROVAL 11 MAR 65 APPROVAL 3-25-65	MANNED SPACECRAFT CENTER HOUSTON, TEXAS GSE JUNCTION BOX SCHEMATIC DIAGRAM GIMBAL POSITIONER - COS IX
		MATERIAL —	NASA APPROVAL MIT APPROVAL	CODE IDENT NO. SIZE D 1902281
NEXT ASSY	USED ON	1901959-011		
APPLICATION		CONTRACT NAS 9-497	SCALE —	SHEET 13 OF 245



REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD		

NEXT ASSY	1901959-011
USED ON	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWN — DATE 3 MAR 65

CHECKED Bayless 11 MAR 65

APPROVAL — 11 MAR 65

APPROVAL — 3-26-65

MAG 6 1965

NASA APPROVAL — 1965

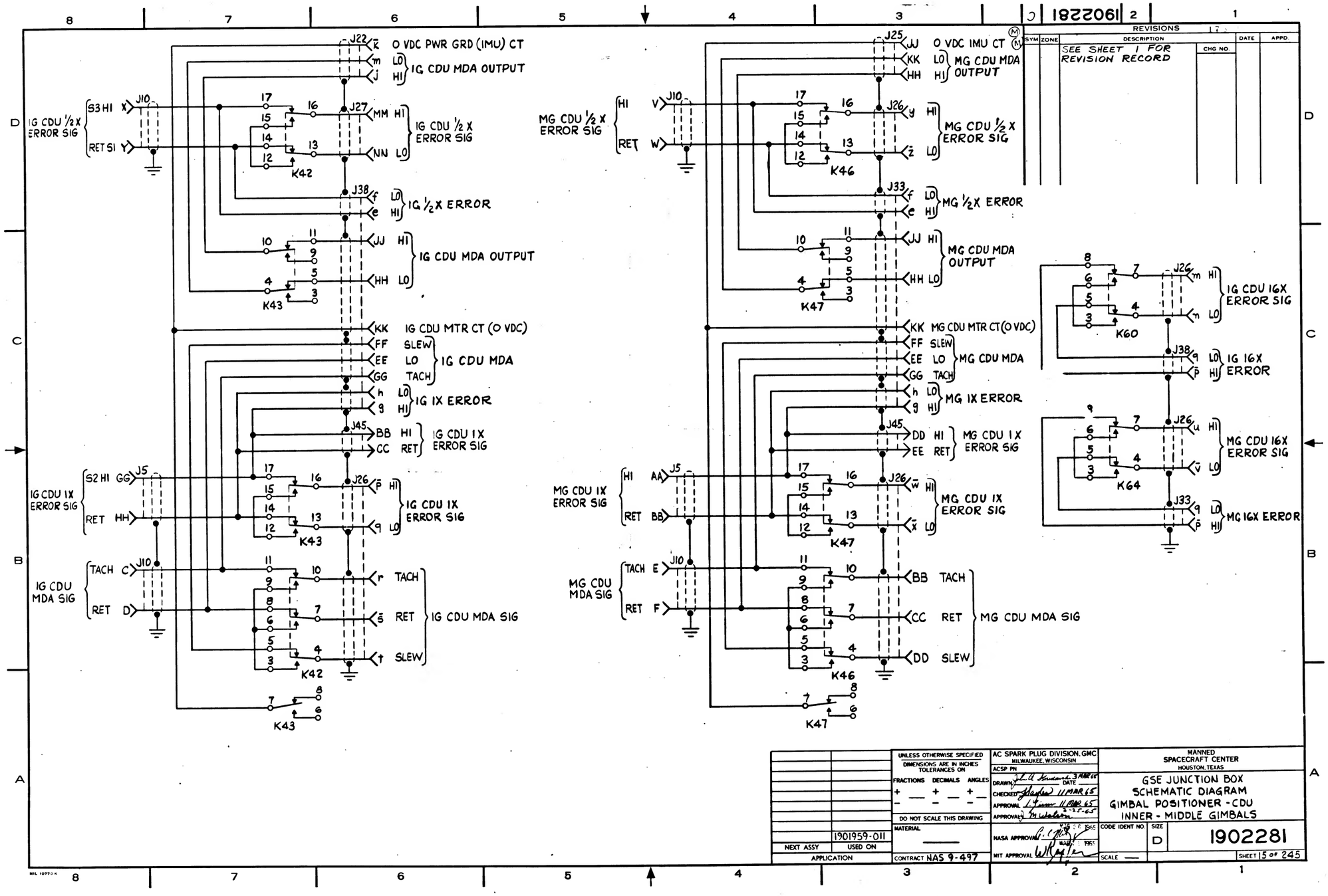
MIT APPROVAL —

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - COS 16X

CODE IDENT NO | SIZE D | 1902281

SCALE — | SHEET 14 OF 245



REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

NEXT ASSY	USED ON	1901959-011	
APPLICATION		CONTRACT NAS 9-497	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — — — — — — DO NOT SCALE THIS DRAWING MATERIAL —

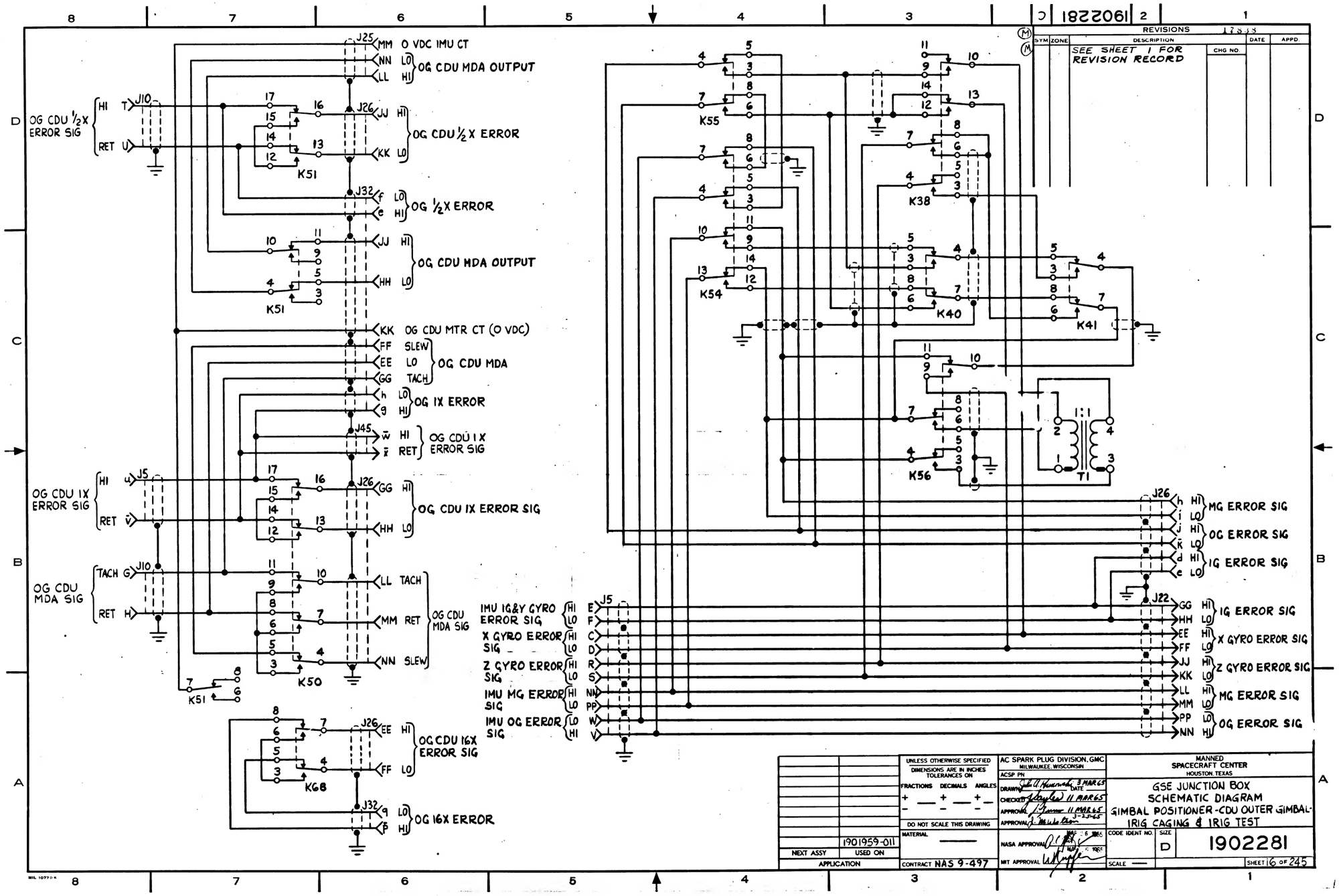
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J.L.U. Swanson 3 MAR 65 DATE
CHECKED Stanley 11 MAR 65
APPROVAL L. Simon 11 MAR 65
APPROVAL M. Watson 2-25-65
NASA APPROVAL R. C. Miller 3/25/65
MIT APPROVAL W. Hamilton

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GSE JUNCTION BOX
SCHEMATIC DIAGRAM
GIMBAL POSITIONER - CDU
INNER - MIDDLE GIMBALS

CODE IDENT NO.	SIZE	
	D	1902281
SCALE —		SHEET 15 OF 245

MIL 1077D-K



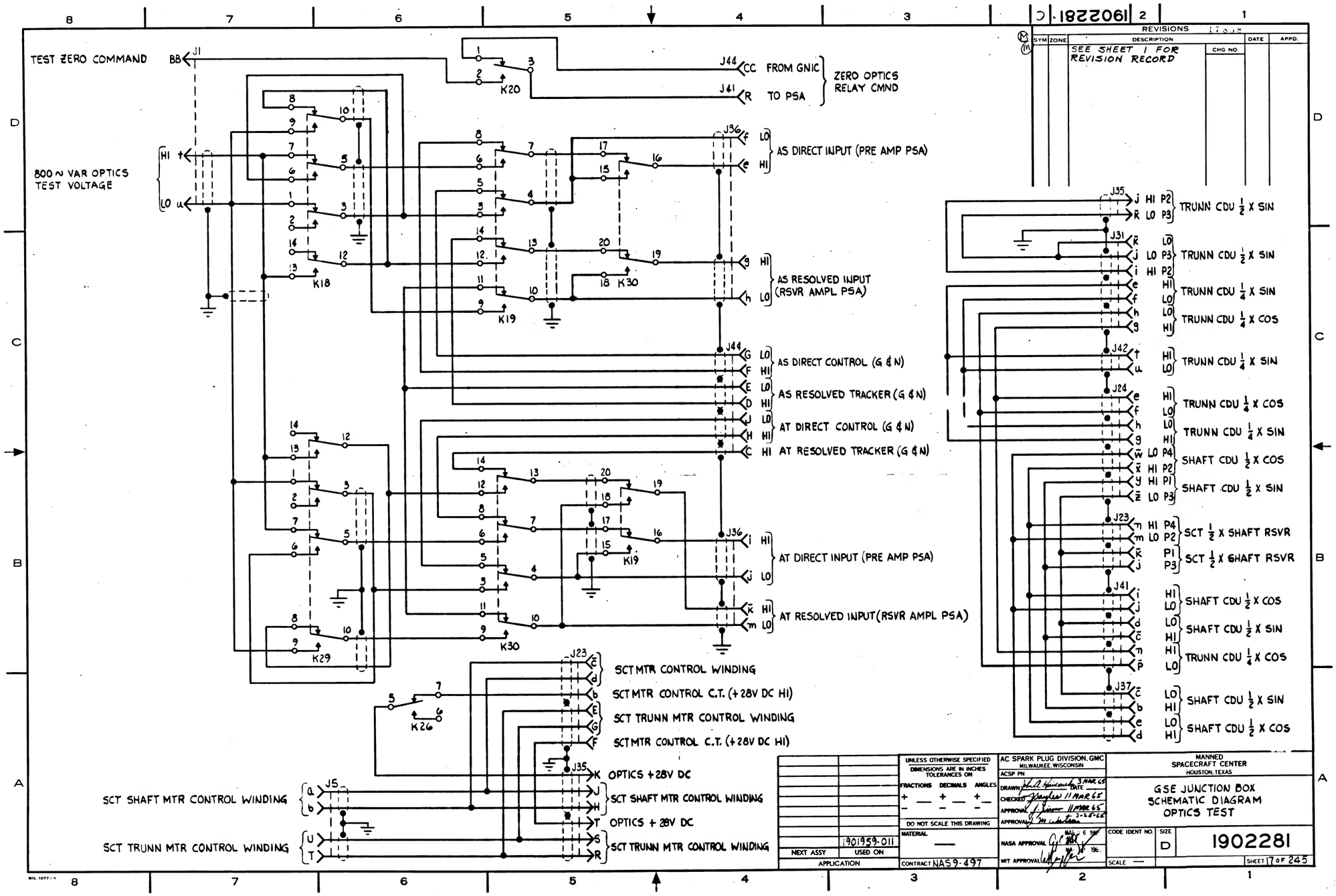
REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWING CHECKED APPROVED APPROVAL	MANNED SPACECRAFT CENTER HOUSTON, TEXAS GSE JUNCTION BOX SCHEMATIC DIAGRAM GIMBAL POSITIONER-CDU OUTER GIMBAL-IRIG CAGING & IRIG TEST	
MATERIAL — NEXT ASSY 1901959-011 USED ON APPLICATION CONTRACT NAS 9-497	NASA APPROVAL MIT APPROVAL	CODE IDENT NO. SIZE D 1902281 SCALE — SHEET 6 OF 245	

1902281 C

MIL 10770K



REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD		

NEXT ASSY	1901959-011
USED ON	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

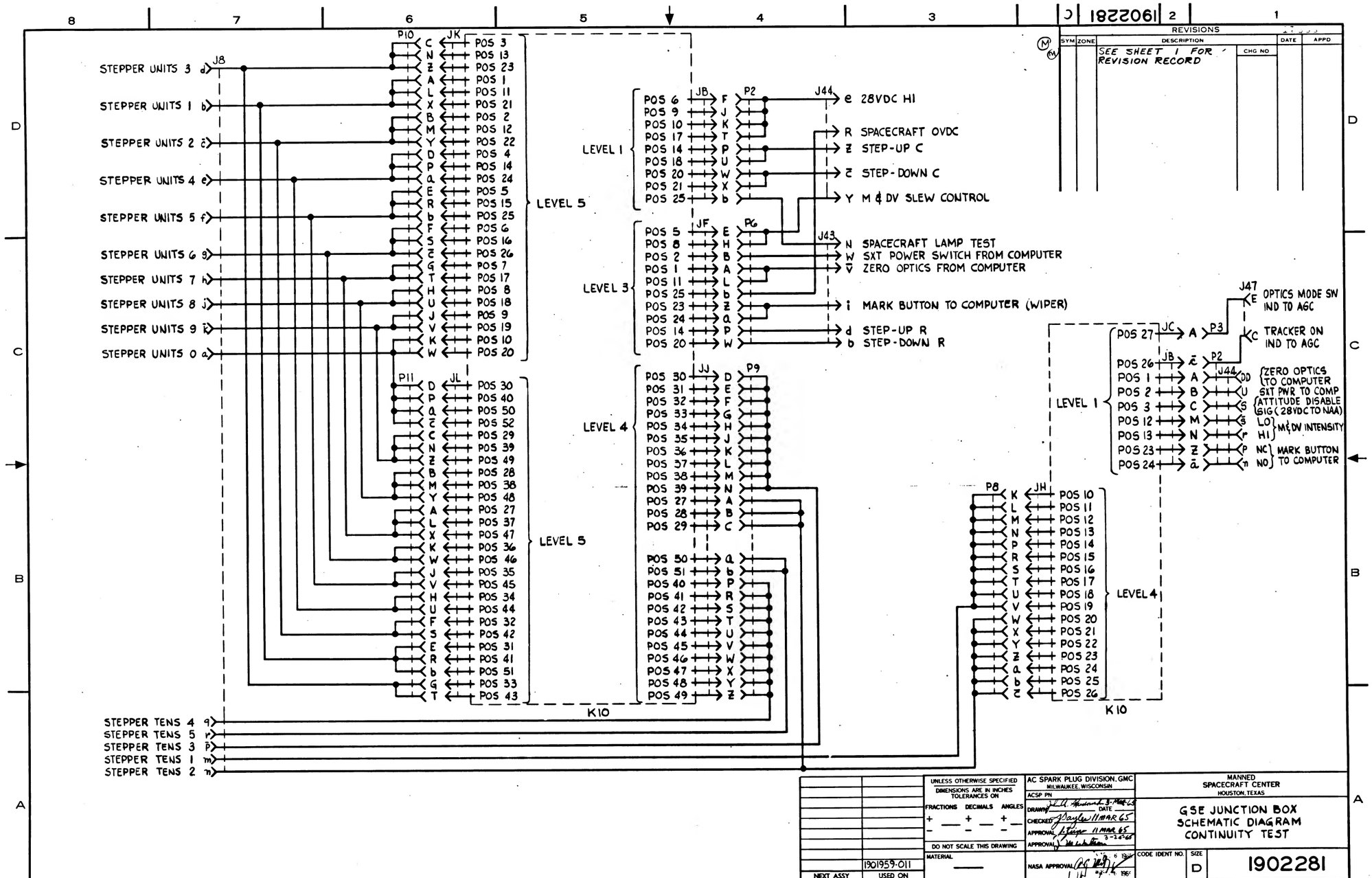
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [signature] 3 MAR 65
CHECKED [signature] 11 MAR 65
APPROVED [signature] 11 MAR 65
APPROVAL [signature] 3-28-65
NASA APPROVAL [signature] MAR 6 1965
MIT APPROVAL [signature] 3/26

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GSE JUNCTION BOX SCHEMATIC DIAGRAM OPTICS TEST

CODE IDENT NO. | SIZE D | 1902281
SCALE — | SHEET 17 OF 245

1902281 C



REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD (CHG NO)		

NEXT ASSY	1901959-011
USED ON	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWING DATE

CHECKED 11 MAR 65

APPROVAL 11 MAR 65

APPROVAL

NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

GSE JUNCTION BOX SCHEMATIC DIAGRAM CONTINUITY TEST

CODE IDENT NO. | SIZE D | 1902281

SCALE — | SHEET 18 OF 245

1902281

MIL 1077 D A

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E33	SPLICE REDUCER (1016006-003)				
E33B	SHLD A1057	A1057A	SHIELD GROUND	22	3
E33B	SHLD A1123	A1123A	SHIELD GROUND	22	3
E33B	SHLD A1156	A1156A	SHIELD GROUND	22	3
E33BB	E33B		JUMPER STRAP		3
E33BB	E80B	A 994	SHIELD GROUND	20	3
E34	SPLICE REDUCER (1016006-003)				
E34B	E34BB		JUMPER STRAP		3
E34B	SHLD A249	A 249A	SHIELD GROUND	22	3
E34B	SHLD A251	A 251A	SHIELD GROUND	22	3
E34B	SHLD A255	A 255A	SHIELD GROUND	22	3
E34B	SHLD A256	A 256A	SHIELD GROUND	22	3
E34B	SHLD A257	A 257A	SHIELD GROUND	22	3
E34B	SHLD A258	A 258A	SHIELD GROUND	22	3
E34B	SHLD A259	A 259A	SHIELD GROUND	22	3
E34B	SHLD A260	A 260A	SHIELD GROUND	22	3
E34B	SHLD A280	A 280A	SHIELD GROUND	22	3
E34B	SHLD A281	A 281A	SHIELD GROUND	22	3
E34BB	E34B		JUMPER STRAP		3
E34BB	E80B	A 995	SHIELD GROUND	20	3
E35	SPLICE REDUCER (1016006-002)				
E35B	E35BB		JUMPER STRAP		3
E35B	SHLD A291	A 291A	SHIELD GROUND	22	3
E35B	SHLD A292	A 292A	SHIELD GROUND	22	3
E35B	SHLD A293	A 293A	SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 27 OF 245

MIL 2084 4-83

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E35	SPLICE REDUCER (1016006-002)				
E35B	SHLD A296	A 296A	SHIELD GROUND	22	3
E35BB	E35B		JUMPER STRAP		3
E35BB	E80B	A 996	SHIELD GROUND	20	3
E36	SPLICE REDUCER (1016006-002)				
E36B	E36BB		JUMPER STRAP		3
E36B	SHLD A268	A 268A	SHIELD GROUND	22	3
E36B	SHLD A313	A 313A	SHIELD GROUND	22	3
E36B	SHLD A314	A 314A	SHIELD GROUND	22	3
E36B	SHLD A315	A 315A	SHIELD GROUND	22	3
E36B	SHLD A316	A 316A	SHIELD GROUND	22	3
E36BB	E36B		JUMPER STRAP		3
E36BB	E39B	A 997	SHIELD GROUND	20	3
E37	SPLICE REDUCER (1016006-003)				
E37B	E37BB		JUMPER STRAP		3
E37B	J22-B	A 310	CABLE W38 SHIELD BND	20	3
E37B	SHLD A311	A 311A	SHIELD GROUND	22	3
E37B	SHLD A317	A 317A	SHIELD GROUND	22	3
E37B	SHLD A318	A 318A	SHIELD GROUND	22	3
E37B	SHLD A319	A 319A	SHIELD GROUND	22	3
E37B	SHLD A320	A 320A	SHIELD GROUND	22	3
E37B	SHLD A321	A 321A	SHIELD GROUND	22	3
E37B	SHLD A323	A 323A	SHIELD GROUND	22	3
E37BB	E37B		JUMPER STRAP		3
E37BB	E39B	A 998	SHIELD GROUND	20	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 28 OF 245

MIL 2084 4-83

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
E38	SPLICE REDUCER (1016006-002)				
E38B	E38BB		JUMPER STRAP		3
E38B	SHLD A324	A 324A	SHIELD GROUND	22	3
E38B	SHLD A325	A 325A	SHIELD GROUND	22	3
E38B	SHLD A326	A 326A	SHIELD GROUND	22	3
E38B	SHLD A327	A 327A	SHIELD GROUND	22	3
E38B	SHLD A328	A 328A	SHIELD GROUND	22	3
E38B	SHLD A329	A 329A	SHIELD GROUND	22	3
E38B	SHLD A330	A 330A	SHIELD GROUND	22	3
E38BB	E38B		JUMPER STRAP		3
E38BB	E39B	A 999	SHIELD GROUND	20	3
E39	SPLICE REDUCER (1016006-002)				
E39B	E39BB		JUMPER STRAP		3
E39B	E36BB	A 997	SHIELD GROUND	20	3
E39B	E37BB	A 998	SHIELD GROUND	20	3
E39B	E38BB	A 999	SHIELD GROUND	20	3
E39B	E43BB	A1051	SHIELD GROUND	20	3
E39B	E44BB	A1052	SHIELD GROUND	20	3
E39BB	E39B		JUMPER STRAP		3
E39BB	TB15-8	A1000	SHIELD GROUND	16	3
E40	SPLICE REDUCER (1016006-002)				
E40B	E40BB		JUMPER STRAP		3
E40B	E41BB	A1002	SHIELD GROUND	20	3
E40B	E42BB	A1003	SHIELD GROUND	20	3
E40B	E89B	A1004	SHIELD GROUND	20	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 29 OF 245

MIL 2084 4-83

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E40	SPLICE REDUCER (1016006-002)				
E40B	E90BB	A1005	SHIELD GROUND	20	3
E40B	E93BB	A1074	SHIELD GROUND	20	3
E40BB	E40B		JUMPER STRAP		3
E40BB	TB15-9	A1001	SHIELD GROUND	16	3
E41	SPLICE REDUCER (1016006-003)				
E41B	E41BB		JUMPER STRAP		3
E41B	SHLD A350	A 350A	SHIELD GROUND	22	3
E41B	SHLD A351	A 351A	SHIELD GROUND	22	3
E41B	SHLD A352	A 352A	SHIELD GROUND	22	3
E41B	SHLD A360	A 360A	SHIELD GROUND	22	3
E41B	SHLD A361	A 361A	SHIELD GROUND	22	3
E41B	SHLD A362	A 362A	SHIELD GROUND	22	3
E41B	SHLD A363	A 363A	SHIELD GROUND	22	3
E41B	SHLD A364	A 364A	SHIELD GROUND	22	3
E41B	SHLD A365	A 365A	SHIELD GROUND	22	3
E41BB	E41B		JUMPER STRAP		3
E41BB	E40B	A1002	SHIELD GROUND	20	3
E42	SPLICE REDUCER (1016006-003)				
E42B	E42BB		JUMPER STRAP		3
E42B	SHLD A349	A 349A	SHIELD GROUND	22	3
E42B	SHLD A366	A 366A	SHIELD GROUND	22	3
E42B	SHLD A368	A 368A	SHIELD GROUND	22	3
E42B	SHLD A369	A 369A	SHIELD GROUND	22	3
E42B	SHLD A370	A 370A	SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 30 OF 245

MIL 2084 4-83

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E42	SPLICE REDUCER (1016006-003)				
E42B	SHLD A371	A 371A	SHIELD GROUND	22	3
E42B	SHLD A372	A 372A	SHIELD GROUND	22	3
E42B	SHLD A375	A 375A	SHIELD GROUND	22	3
E42BB	E42B		JUMPER STRAP		3
E42BB	E40B	A1003	SHIELD GROUND	20	3
E43	SPLICE REDUCER (1016006-002)				
E43B	E43BB		JUMPER STRAP		3
E43B	J25-B	A 376	CABLE W39 SHIELD GROUND	20	3
E43B	SHLD A383	A 383A	SHIELD GROUND	22	3
E43B	SHLD A385	A 385A	SHIELD GROUND	22	3
E43B	SHLD A386	A 386A	SHIELD GROUND	22	3
E43B	SHLD A388	A 388A	SHIELD GROUND	22	3
E43BB	E43B		JUMPER STRAP		3
E43BB	E39B	A1051	SHIELD GROUND	20	3
E44	SPLICE REDUCER (1016006-002)				
E44B	E44BB		JUMPER STRAP		3
E44B	SHLD A377	A 377A	SHIELD GROUND	22	3
E44B	SHLD A378	A 378A	SHIELD GROUND	22	3
E44B	SHLD A379	A 379A	SHIELD GROUND	22	3
E44B	SHLD A380	A 380A	SHIELD GROUND	22	3
E44B	SHLD A394	A 394A	SHIELD GROUND	22	3
E44B	SHLD A395	A 395A	SHIELD GROUND	22	3
E44BB	E44B		JUMPER STRAP		3
E44BB	E39B	A1052	SHIELD GROUND	20	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
E45	SPLICE REDUCER (1016006-002)				
E45B	E45BB		JUMPER STRAP		3
E45B	SHLD A401	A 401A	SHIELD GROUND	22	3
E45B	SHLD A402	A 402A	SHIELD GROUND	22	3
E45B	SHLD A405	A 405A	SHIELD GROUND	22	3
E45BB	E45B		JUMPER STRAP		3
E45BB	E49B	A1006	SHIELD GROUND	20	3
E46	SPLICE REDUCER (1016006-002)				
E46B	E46BB		JUMPER STRAP		3
E46B	SHLD A407	A 407A	SHIELD GROUND	22	3
E46B	SHLD A408	A 408A	SHIELD GROUND	22	3
E46B	SHLD A409	A 409A	SHIELD GROUND	22	3
E46B	SHLD A410	A 410A	SHIELD GROUND	22	3
E46B	SHLD A411	A 411A	SHIELD GROUND	22	3
E46B	SHLD A412	A 412A	SHIELD GROUND	22	3
E46B	SHLD A413	A 413A	SHIELD GROUND	22	3
E46BB	E46B		JUMPER STRAP		3
E46BB	E49B	A1007	SHIELD GROUND	20	3
E47	SPLICE REDUCER (1016006-002)				
E47B	E47BB		JUMPER STRAP		3
E47B	J26-B	A 397	CABLE W40 SHIELD GROUND	20	3
E47B	SHLD A414	A 414A	SHIELD GROUND	22	3
E47B	SHLD A415	A 415A	SHIELD GROUND	22	3
E47B	SHLD A416	A 416A	SHIELD GROUND	22	3
E47B	SHLD A417	A 417A	SHIELD GROUND	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E47	SPLICE REDUCER (1016006-002)				
E47B	SHLD A418	A 418A	SHIELD GROUND	22	3
E47B	SHLD A419	A 419A	SHIELD GROUND	22	3
E47BB	E47B		JUMPER STRAP		3
E47BB	E49B	A1008	SHIELD GROUND	20	3
E48	SPLICE REDUCER (1016006-003)				
E48B	E48BB		JUMPER STRAP		3
E48B	J27-B	A 420	CABLE W42 SHIELD GROUND	20	3
E48B	SHLD A428	A 428A	SHIELD GROUND	22	3
E48B	SHLD A436	A 436A	SHIELD GROUND	22	3
E48B	SHLD A437	A 437A	SHIELD GROUND	22	3
E48B	SHLD A438	A 438A	SHIELD GROUND	22	3
E48B	SHLD A439	A 439A	SHIELD GROUND	22	3
E48B	SHLD A449	A 449A	SHIELD GROUND	22	3
E48B	SHLD A1107	A1107A	SHIELD GROUND	22	3
E48B	SHLD A1108	A1108A	SHIELD GROUND	22	3
E48BB	E48B		JUMPER STRAP		3
E48BB	E49B	A1009	SHIELD GROUND	20	3
E48B	SHLD A1196	A1196A	SHIELD GROUND	22	3
E49	SPLICE REDUCER (1016006-002)				
E49B	E49BB		JUMPER STRAP		3
E49B	E45BB	A1006	SHIELD GROUND	20	3
E49B	E46BB	A1007	SHIELD GROUND	20	3
E49B	E47BB	A1008	SHIELD GROUND	20	3
E49B	E48BB	A1009	SHIELD GROUND	20	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E49	SPLICE REDUCER (1016006-002)				
E49BB	E49B		JUMPER STRAP		3
E49BB	TB15-10	A1010	SHIELD GROUND	20	3
E50	SPLICE REDUCER (1016006-003)				
E50B	E50BB		JUMPER STRAP		3
E50B	J31-B	A 457	CABLE W46 SHIELD GROUND	20	3
E50B	SHLD A459	A 459A	SHIELD GROUND	22	3
E50B	SHLD A460	A 460A	SHIELD GROUND	22	3
E50B	SHLD A461	A 461A	SHIELD GROUND	22	3
E50B	SHLD A462	A 462A	SHIELD GROUND	22	3
E50B	SHLD A463	A 463A	SHIELD GROUND	22	3
E50B	SHLD A464	A 464A	SHIELD GROUND	22	3
E50B	SHLD A465	A 465A	SHIELD GROUND	22	3
E50B	SHLD A466	A 466A	SHIELD GROUND	22	3
E50B	SHLD A468	A 468A	SHIELD GROUND	22	3
E50BB	E50B		JUMPER STRAP		3
E50BB	E81B	A1011	SHIELD GROUND	20	3
E51	SPLICE REDUCER (1016006-002)				
E51B	E51BB		JUMPER STRAP		3
E51B	SHLD A469	A 469A	SHIELD GROUND	22	3
E51B	SHLD A470	A 470A	SHIELD GROUND	22	3
E51B	SHLD A472	A 472A	SHIELD GROUND	22	3
E51B	SHLD A473	A 473A	SHIELD GROUND	22	3
E51B	SHLD A476	A 476A	SHIELD GROUND	22	3
E51B	SHLD A478	A 478A	SHIELD GROUND	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E68	SPLICE REDUCER (1016006-002)				
E68B	SHLD	A798	A 798A SHIELD GROUND	22	3
E68B	SHLD	A1145	A1145A SHIELD GROUND	22	3
E68B	SHLD	A1146	A1146A SHIELD GROUND	22	3
E68B	SHLD	A1147	A1147A SHIELD GROUND	22	3
E68B	SHLD	A1148	A1148A SHIELD GROUND	22	3
E68B	SHLD	A1149	A1149A SHIELD GROUND	22	3
E68BB	E68B		JUMPER STRAP		3
E68BB	E77B	A1028	SHIELD GROUND	20	3
	E69 SPLICE REDUCER (1016006-001)				
E69B	E69BB		JUMPER STRAP		3
E69B	SHLD	A810	A 810A SHIELD GROUND	22	3
E69BB	E69B		JUMPER STRAP		3
E69BB	E77B	A1029	SHIELD GROUND	20	3
	E71 SPLICE REDUCER (1016006-003)				
E71B	E71BB		JUMPER STRAP		3
E71B	SHLD	A836	A 836A SHIELD GROUND	22	3
E71B	SHLD	A838	A 838A SHIELD GROUND	22	3
E71B	SHLD	A841	A 841A SHIELD GROUND	22	3
E71B	SHLD	A842	A 842A SHIELD GROUND	22	3
E71B	SHLD	A843	A 843A SHIELD GROUND	22	3
E71B	SHLD	A899	A 899A SHIELD GROUND	22	3
E71B	SHLD	A900	A 900A SHIELD GROUND	22	3
E71B	SHLD	A901	A 901A SHIELD GROUND	22	3
E71B	SHLD	A904	A 904A SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 43 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E71	SPLICE REDUCER (1016006-003)				
E71B	SHLD	A905	A 905A SHIELD GROUND	22	3
E71BB	E71B		JUMPER STRAP		3
E71BB	E78B	A1031	SHIELD GROUND	20	3
	E72 SPLICE REDUCER (1016006-003)				
E72B	E72BB		JUMPER STRAP		3
E72B	SHLD	A909	A 909A SHIELD GROUND	22	3
E72B	SHLD	A910	A 910A SHIELD GROUND	22	3
E72B	SHLD	A911	A 911A SHIELD GROUND	22	3
E72B	SHLD	A912	A 912A SHIELD GROUND	22	3
E72B	SHLD	A913	A 913A SHIELD GROUND	22	3
E72B	SHLD	A914	A 914A SHIELD GROUND	22	3
E72B	SHLD	A915	A 915A SHIELD GROUND	22	3
E72B	SHLD	A916	A 916A SHIELD GROUND	22	3
E72B	SHLD	A919	A 919A SHIELD GROUND	22	3
E72B	SHLD	A920	A 920A SHIELD GROUND	22	3
E72BB	E72B		JUMPER STRAP		3
E72BB	E78B	A1032	SHIELD GROUND	20	3
	E73 SPLICE REDUCER (1016006-003)				
E73B	E73BB		JUMPER STRAP		3
E73B	SHLD	A845	A 845A SHIELD GROUND	22	3
E73B	SHLD	A850	A 850A SHIELD GROUND	22	3
E73B	SHLD	A855	A 855A SHIELD GROUND	22	3
E73B	SHLD	A856	A 856A SHIELD GROUND	22	3
E73B	SHLD	A857	A 857A SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 44 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E73	SPLICE REDUCER (1016006-003)				
E73B	SHLD	A858	A 858A SHIELD GROUND	22	3
E73B	SHLD	A859	A 859A SHIELD GROUND	22	3
E73B	SHLD	A860	A 860A SHIELD GROUND	22	3
E73B	SHLD	A861	A 861A SHIELD GROUND	22	3
E73B	SHLD	A862	A 862A SHIELD GROUND	22	3
E73BB	E73B		JUMPER STRAP		3
E73BB	E78B	A1033	SHIELD GROUND	20	3
	E74 SPLICE REDUCER (1016006-003)				
E74B	E74BB		JUMPER STRAP		3
E74B	SHLD	A925	A 925A SHIELD GROUND	22	3
E74B	SHLD	A926	A 926A SHIELD GROUND	22	3
E74B	SHLD	A927	A 927A SHIELD GROUND	22	3
E74B	SHLD	A928	A 928A SHIELD GROUND	22	3
E74B	SHLD	A929	A 929A SHIELD GROUND	22	3
E74B	SHLD	A930	A 930A SHIELD GROUND	22	3
E74B	SHLD	A931	A 931A SHIELD GROUND	22	3
E74B	SHLD	A932	A 932A SHIELD GROUND	22	3
E74B	SHLD	A936	A 936A SHIELD GROUND	22	3
E74B	SHLD	A937	A 937A SHIELD GROUND	22	3
E74BB	E74B		JUMPER STRAP		3
E74BB	E78B	A1034	SHIELD GROUND	20	3
	E75 SPLICE REDUCER (1016006-003)				
E75B	E75BB		JUMPER STRAP		3
E75B	SHLD	A866	A 866A SHIELD GROUND	22	3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 45 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) E75	SPLICE REDUCER (1016006-003)				
E75B	SHLD	A871	A 871A SHIELD GROUND	22	3
E75B	SHLD	A872	A 872A SHIELD GROUND	22	3
E75B	SHLD	A873	A 873A SHIELD GROUND	22	3
E75B	SHLD	A874	A 874A SHIELD GROUND	22	3
E75B	SHLD	A875	A 875A SHIELD GROUND	22	3
E75B	SHLD	A876	A 876A SHIELD GROUND	22	3
E75B	SHLD	A877	A 877A SHIELD GROUND	22	3
E75B	SHLD	A878	A 878A SHIELD GROUND	22	3
E75B	SHLD	A881	A 881A SHIELD GROUND	22	3
E75BB	E75B		JUMPER STRAP		3
E75BB	E78B	A1035	SHIELD GROUND	20	3
	E76 SPLICE REDUCER (1016006-003)				
E76B	E76BB		JUMPER STRAP		3
E76B	SHLD	A890	A 890A SHIELD GROUND	22	3
E76B	SHLD	A893	A 893A SHIELD GROUND	22	3
E76B	SHLD	A894	A 894A SHIELD GROUND	22	3
E76B	SHLD	A895	A 895A SHIELD GROUND	22	3
E76B	SHLD	A896	A 896A SHIELD GROUND	22	3
E76B	SHLD	A897	A 897A SHIELD GROUND	22	3
E76B	SHLD	A941	A 941A SHIELD GROUND	22	3
E76B	SHLD	A942	A 942A SHIELD GROUND	22	3
E76B	SHLD	A943	A 943A SHIELD GROUND	22	3
E76B	SHLD	A944	A 944A SHIELD GROUND	22	3
E76BB	E76B		JUMPER STRAP		3
E76BB	E77B	A1036	SHIELD GROUND	20	3

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J4	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J4-A	J22-L	A1116	IMU TEMP LIGHT (MAIN PANEL)	20	159
J4-B			SPARE CONTACT (DO NOT USE)		
J4-C			SPARE CONTACT		
J4-D			SPARE CONTACT		
J4-E			SPARE CONTACT		
J4-F			SPARE CONTACT		
J4-G			SPARE CONTACT		
J4-H			SPARE CONTACT		
J4-J			SPARE CONTACT		
J4-K			SPARE CONTACT		
J4-L			SPARE CONTACT		
J4-M	J34-X	A 526	MAIN PANEL GIMBAL LOCK LIGHT	22	414
J4-N			SPARE CONTACT		
J4-P	TB13-9A	A1117	0 VDC SPACECRAFT	20	248
J4-R	J22-C	A1118	ERROR DETECT LIGHT (MAIN PANEL)	20	140
J4-S	J22-M	A 62R	WIRED SPARE	24	161
J4-T	J22-N	A 62L	WIRED SPARE	24	164
J4-U	J22-W	A 63R	WIRED SPARE	24	177
J4-V	J22-X	A 63L	WIRED SPARE	24	179
J4-W	J22-U	A 64R	WIRED SPARE	24	175
J4-X	J22-V	A 64L	WIRED SPARE	24	176
J4-Y	J22-P	A 65R	WIRED SPARE	24	167
J4-Z	J22-R	A 65L	WIRED SPARE	24	171
J4-A*			SPARE CONTACT		
J4-B*	J22-S	A 66R	WIRED SPARE	24	173
J4-C*	J22-T	A 66L	WIRED SPARE	24	174
J4-D*	TB13-6A	A 67	LOCK CDU RELAY CONTROL	24	302
J4-E*	TB11-1A	A 68	FINE ALIGN. RELAY CONTROL	24	303
J4-F*	J39-R*	A 69	MODE RELAY COMMON	24	454
J4-G*	TB11-3D	A 70R	800 CPS 28V 1PCT HI IMU	20	268
J4-H*	TB11-5D	A 70L	800 CPS 28V 1PCT LO IMU	20	269
J4-I*			SPARE CONTACT		

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SCALE-NONE	REV LTR C	SHEET 59 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J4	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J4-J*	TB11-7A	A 71R	SIN AOG 1X S2 (LO)	24	153
J4-K*	TB11-8A	A 71L	SIN AOG 1X S4 (HI)	24	156
J4-M*	TB11-13A	A 72R	COS AOG 1X S3 (HI)	24	182
J4-N*	TB11-14A	A 72L	COS AOG 1X S1 (LO)	24	184
J4-P*	K48-13	A 73R	SIN AMG 1X S4 (HI)	24	170
J4-Q*	K48-16	A 73L	SIN AMG 1X S2 (LO)	24	172
J4-R*	K48-7	A 74R	COS AMG 1X S3 (HI)	24	165
J4-S*	K48-10	A 74L	COS AMG 1X S1 (LO)	24	168
J4-T*	K44-13	A 75R	SIN AIG 1X S4 (HI)	24	143
J4-U*	K44-16	A 75L	SIN AIG 1X RET S2	24	145
J4-V*	K44-7	A 76R	COS AIG 1X S3 (HI)	24	139
J4-W*	K44-10	A 76L	COS AIG 1X RET S1	24	141
J4-X*	J43-X*	A 77R	ROLL ATT IMP CONTR OUTPUT RT	24	467
J4-Y*	J43-Y*	A 77L	ROLL ATT IMP CONTR OUTPUT LFT	24	468
J4-Z*	J43-Z*	A 77Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	469
J4-AA			SPARE CONTACT		
J4-BB	J43-FF	A 78R	PITCH ATT IMP CONTR OUTPUT UP	24	459
J4-CC	J43-GG	A 78L	PITCH ATT IMP CONTR OUTPUT DN	24	460
J4-DD	J43-HH	A 78Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	461
J4-EE	J43-DD	A 79L	YAW ATT IMP CONTR OUTPUT LEFT	24	462
J4-FF	J43-CC	A 79R	YAW ATT IMP CONTR OUTPUT RT	24	463
J4-GG	J43-EE	A 79Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	464
J4-HH			SPARE CONTACT (DO NOT USE)		
J4-JJ	J43-K	A 80R	+28 VDC FROM NAA (MIN IMPULSE ENABLE)	24	465
J4-KK	J43-L	A 80L	0 VDC FROM NAA	24	466
J4-LL	J33-G	A1119	MASTER CAUTION LIGHT RETURN	20	384
J4-MM	J33-H	A1120	+28 VDC SPACECRAFT	20	385
J4-NN	J33-E	A1121	MASTER WARNING LIGHT RETURN	20	382
J4-PP	J33-F	A1122	+28 VDC SPACECRAFT	20	383

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
J5	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J5-A			SPARE CONTACT		
J5-B			SPARE CONTACT (DO NOT USE)		
J5-C	K38-10	A 85R	X GYRO ERROR SIG HI	24	146
J5-D	K38-13	A 85L	IMU GIMBAL AND GYRO ERROR SIG LO	24	148
J5-E	TB13-7A	A 86R	IMU IG AND Y GYRO ERROR SIG HI	24	150
J5-F	TB13-8A	A 86L	IMU GIMBAL AND GYRO ERROR SIG LO	24	152
J5-G			SPARE CONTACT		
J5-H			SPARE CONTACT		
J5-J	J22-Y	A 87	ERROR DETECT LIGHT HI	24	181
J5-K	TB16-1	A 261	0 VDC (ERROR DETECT LIGHT LO)	20	7
J5-L	TB11-19A	A 81	GIMBAL LOCK SIGNAL HI	20	265
J5-M	TB16-3	A 82	GIMBAL LOCK SIGNAL LO	20	7
J5-N	J42-H*	A 89R	SXT TRUNN MDA OUTPUT HI (TEST)	24	482
J5-P	J42-I*	A 89L	SXT TRUNN MDA OUTPUT LO (TEST)	24	483
J5-R	K38-4	A 90R	Z GYRO ERROR SIG (HI)	24	155
J5-S	K38-7	A 90L	IMU GIMBAL AND GYRO ERROR SIG LO	24	158
J5-T	TB6-14D	A 91R	SCT TRUNN MTR CONTR WIND	24	190
J5-U	TB6-12D	A 91L	SCT TRUNN MTR CONTR WIND	24	194
J5-V	K54-4	A 92R	IMU OG ERROR SIG (HI)	24	166
J5-W	K54-7	A 92L	IMU GIMBAL AND GYRO ERROR SIG LO	24	169
J5-X	J42-J*	A 93R	SXT SHAFT MDA OUTPUT HI (TEST)	24	484
J5-Y	J42-K*	A 93L	SXT SHAFT MDA OUTPUT LO (TEST)	24	485
J5-Z			SPARE CONTACT		
J5-A*	TB6-9D	A 94R	SCT SHAFT MTR CONTR WIND	24	189
J5-B*	TB6-10D	A 94L	SCT SHAFT MTR CONTR WIND	24	188
J5-C*	J22-Z	A 95R	X PIPA ERROR MONITOR	24	183
J5-D*	J22-A*	A 95L	0 VDC IMU	24	138
J5-E*	J22-D	A 96R	Y PIPA ERROR MONITOR	24	142
J5-F*	J22-E	A 96L	0 VDC IMU	24	144
J5-G*	J22-F	A 97R	Z PIPA ERROR MONITOR	24	147
J5-H*	J22-G	A 97L	0 VDC IMU	24	149
J5-I*			SPARE CONTACT		

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SCALE-NONE	REV LTR C	SHEET 61 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J5	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J5-J*	J42-Y	A 98R	TRUNN CDU MDA HI (TEST)	24	490
J5-K*	J42-Z	A 98L	TRUNN CDU MDA LO (TEST)	24	491
J5-M*	J42-F*	A 99R	SHAFT CDU MDA HI (TEST)	24	480
J5-N*	J42-G*	A 99L	SHAFT CDU MDA LO (TEST)	24	481
J5-P*	J42-M*	A 100R	DIRECT SHAFT CONTROL HI (TEST)	24	486
J5-Q*	J42-N*	A 100L	DIRECT SHAFT CONTROL LO (TEST)	24	487
J5-R*	J42-P*	A 101R	DIRECT TRUNN CONTROL HI (TEST)	24	488
J5-S*	J42-Q*	A 101L	DIRECT TRUNN CONTROL LO (TEST)	24	489
J5-T*			SPARE CONTACT		
J5-U*	TB17-5A	A 102R	OG CDU 1X ERROR SIG (HI)	24	278
J5-V*	TB17-6A	A 102L	OG CDU ERROR SIG RET	24	280
J5-W*	TB11-13B	A 103R	COS AOG 1X S3 (HI)	24	182
J5-X*	TB11-14B	A 103L	COS AOG 1X S1 (LO)	24	184
J5-Y*	TB11-8B	A 104R	SIN AOG 1X S4 (HI)	24	156
J5-Z*	TB11-7B	A 104L	SIN AOG 1X S2 (LO)	24	153
J5-AA	TB17-3C	A 105R	MG CDU 1X ERROR SIG (HI)	24	299
J5-BB	TB17-4C	A 105L	MG CDU ERROR SIG RET	24	300
J5-CC	K48-7	A 106R	COS AMG 1X S3 (HI)	24	165
J5-DD	K48-10	A 106L	COS AMG 1X S1 (LO)	24	168
J5-EE	K48-13	A 107R	SIN AMG 1X S4 (HI)	24	170
J5-FF	K48-16	A 107L	SIN AMG 1X S2 (LO)	24	172
J5-GG	TB17-1C	A 108R	IG CDU 1X ERROR SIG S2 (HI)	24	290
J5-HH	TB17-2C	A 108L	IG CDU ERROR SIG RET	24	291
J5-JJ	K59-19	A 109L	COS AIG 1X S3 (HI)	24	139
J5-KK	K59-16	A 109R	COS AIG 1X RET S1	24	141
J5-LL	K59-13	A 110R	SIN AIG 1X S4 (HI)	24	143
J5-MM	K59-10	A 110L	SIN AIG 1X RET S2	24	145
J5-NN	K54-10	A 111R	IMU MG ERROR SIG (HI)	24	160
J5-PP	K54-13	A 111L	IMU GIMBAL AND GYRO ERROR SIG LO	24	163

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J22			61 PIN CONNECTOR MS 3127E24-61P (1897055-610)		
J22-Y*	TB11-13F	A 322	IMU COS AOG 1X HI	24	182
J22-Z*	K67-16	A 323L	CDU COS AOG 1X LO	24	184
J22-AA	K53-4	A 324R	CDU COS AOG 16X HI	24	55
J22-BB	K53-7	A 324L	CDU COS AOG 16X LO	24	57
J22-CC	K53-10	A 325R	CDU SIN AOG 16X HI	24	45
J22-DD	K53-13	A 325L	CDU SIN AOG 16X LO	24	47
J22-EE	K38-10	A 326R	X GYRO ERROR SIGNAL HI	24	146
J22-FF	K38-13	A 326L	X GYRO ERROR SIGNAL LO	24	148
J22-GG	TB13-7B	A 327R	INNER GIMBAL ERROR SIGNAL HI	24	150
J22-HH	TB13-8B	A 327L	INNER GIMBAL ERROR SIGNAL LO	24	152
J22-JJ	K38-4	A 328R	Z GYRO ERROR SIGNAL HI	24	155
J22-KK	K38-7	A 328L	Z GYRO ERROR SIGNAL LO	24	158
J22-LL	K54-10	A 329R	MG ERROR SIGNAL HI	24	160
J22-MM	K54-13	A 329L	MG ERROR SIGNAL LO	24	163
J22-NN	K54-4	A 330R	OG ERROR SIGNAL HI	24	166
J22-PP	K54-7	A 330L	OG ERROR SIGNAL LO	24	169
J23			55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)		
J23-A	TB13-13D	A 331R	28 V 800 CPS 5 PER CENT HI	20	185
J23-B	TB13-14D	A 331L	28 V 800 CPS 5 PER CENT LO	20	186
J23-C	E89B	A 332	CABLE W#3 SHIELD GND	20	3
J23-D			SPARE CONTACT		
J23-E	TB6-14C	A 334R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
J23-F	TB6-13C	A 334L	SCT MOTOR CONTROL CT (+28 VDC HI)	24	192
J23-G	TB6-12C	A 334Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
J23-H	E89B	A 335	SHIELD GROUND	20	3
J23-J	TB13-17B	A 336R	28 V 800 CPS 1 PER CENT HI	20	198
J23-K	TB13-18B	A 336L	28 V 800 CPS 1 PER CENT LO	20	200
J23-L			SPARE CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J23			55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)		
J23-M			SPARE CONTACT		
J23-N	J41-K*	A 337R	WIRED SPARE	24	203
J23-P	J41-M*	A 337L	WIRED SPARE	24	205
J23-R	E89B	A 338	SHIELD GROUND	20	3
J23-S	J41-U	A 339R	WIRED SPARE	24	207
J23-T	J41-T	A 339L	WIRED SPARE	24	208
J23-U	J41-S	A 339Y	WIRED SPARE	24	209
J23-V	J35-U	A 340R	SCT 1X TRUNNION RSVR COS HI P3	24	210
J23-W	J35-V	A 340L	SCT 1X TRUNNION RSVR COS LO P1	24	211
J23-X	J35-W	A 341R	SCT 1X TRUNNION RSVR P2	24	212
J23-Y	J35-X	A 341L	SCT 1X TRUNNION RSVR P4	24	213
J23-Z			SPARE CONTACT		
J23-A*			SPARE CONTACT		
J23-B*	TB6-11C	A 342R	SCT MOTOR CONTROL CT (+28 VDC HI)	20	187
J23-C*	TB6-10C	A 342L	SCT SHAFT MOTOR CONTROL WINDING	20	188
J23-D*	TB6-9C	A 342Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
J23-E*	J41-V	A 343R	WIRED SPARE	22	191
J23-F*	J41-W	A 343L	WIRED SPARE	22	193
J23-G*	J41-Y	A 344R	WIRED SPARE	24	195
J23-H*	J41-Z	A 344Y	WIRED SPARE	24	196
J23-I*	J41-X	A 344L	WIRED SPARE	24	197
J23-J*	TB7-3B	A 345R	SCT 1/2 X SHAFT RSVR P3	24	199
J23-K*	TB7-4B	A 345L	SCT 1/2 X SHAFT RSVR P1	24	201
J23-M*	TB13-4A	A 346R	SCT 1/2 X SHAFT RSVR P2 LO	24	202
J23-N*	TB13-5A	A 346L	SCT 1/2 X SHAFT RSVR P4 HI	24	204
J23-P*			SPARE CONTACT		
J23-Q*			SPARE CONTACT		
J23-R*	TB6-1A	A 347R	LAMP VOLTAGE	24	206
J23-S*	TB6-4A	A 347L	LAMP VOLTAGE	24	7
J23-T*			SPARE CONTACT		
J23-U*			SPARE CONTACT		
J23-V*			SPARE CONTACT		

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J23			55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)		
J23-W*			SPARE CONTACT		
J23-X*			SPARE CONTACT		
J23-Y*			SPARE CONTACT		
J23-Z*			SPARE CONTACT		
J23-AA			SPARE CONTACT		
J23-BB			SPARE CONTACT		
J23-CC			SPARE CONTACT		
J23-EE			SPARE CONTACT		
J23-FF			SPARE CONTACT		
J23-GG			SPARE CONTACT		
J23-HH			SPARE CONTACT		
J24			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J24-A	J35-E	A 349R	SXT SHAFT MOTOR CONTROL WINDING RED	20	214
J24-B	J35-G	A 349L	28 VDC OPTICS HI	20	217
J24-C	J35-F	A 349Y	SXT SHAFT MOTOR CONTROL WINDING BLACK	20	220
J24-D	J44-V	A 350W	800 CPS 28 V 5 PERCENT HI OPTICS SWITCHED	20	222
J24-E	TB13-14F	A 24W	28V 800 CPS 5 PERCENT LO	20	186
J24-F	J35-W*	A 351R	SXT TRUNNION MOTOR CONTROL WINDING RED	24	225
J24-G	J35-V*	A 351L	28 VDC OPTICS HI	24	227
J24-H	J35-X*	A 351Y	SXT TRUNNION MOTOR CONTROL WINDING BLACK	24	229
J24-J	TB13-19B	A 352R	800 CPS 28 V 1 PERCENT HI OPTICS	24	198
J24-K	TB13-20B	A 352L	800 CPS 28 V 1 PERCENT LO OPTICS	24	200
J24-L	TB6-2B	A 353R	400 CPS VARIABLE ILLUMINATION POWER	24	206
J24-M	TB6-5B	A 353L	6 VOLT 400 CPS LO	24	7
J24-N			SPARE CONTACT		
J24-P			SPARE CONTACT		
J24-R			SPARE CONTACT		
J24-S	E93B	A 356	OPTICS 0 VDC	20	3

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J24			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J24-T	E93B	A 357	OPTICS 0 VDC	20	3
J24-U	E93B	A 358	CABLE W#4 SHIELD GROUND	20	3
J24-V			SPARE CONTACT		
J24-W			SPARE CONTACT		
J24-X			SPARE CONTACT		
J24-Y	J42-CC	A 359L	SXT AT 64X RESOLVER SINE LO	24	243
J24-Z	J42-DD	A 359R	SXT AT 64X RESOLVER SINE HI	24	244
J24-A*	J42-AA	A 360R	SXT AT 64X RESOLVER COSINE HI	24	215
J24-B*	J42-BB	A 360L	SXT AT 64X RESOLVER COSINE LO	24	218
J24-C*	J41-Y*	A 361R	SXT TRUNNION 1X RESOLVER ERROR HI	24	221
J24-D*	J41-Z*	A 361L	SXT TRUNNION 1X RESOLVER ERROR LO	24	223
J24-E*	TB7-5A	A 362R	TRUNNION CDU 1/4X COSINE HI	24	224
J24-F*	TB7-6A	A 362L	TRUNNION CDU 1/4X COSINE LO	24	226
J24-G*	TB17-18A	A 363R	TRUNNION CDU 1/4X SINE HI	24	228
J24-H*	TB17-17A	A 363L	TRUNNION CDU 1/4X SINE LO	24	230
J24-I*			SPARE CONTACT		
J24-J*			SPARE CONTACT		
J24-K*	J41-BB	A 364R	WIRED SPARE	22	232
J24-M*	J41-CC	A 364L	WIRED SPARE	22	233
J24-N*	J42-GG	A 365R	SXT AS 16X RESOLVER SINE HI	24	235
J24-P*	J42-HH	A 365L	SXT AS 16X RESOLVER SINE LO	24	237
J24-Q*	J42-FF	A 366R	SXT AS 16X RESOLVER COSINE LO	24	239
J24-R*	J42-EE	A 366L	SXT AS 16X RESOLVER COSINE HI	24	240
J24-S*			SPARE CONTACT		
J24-T*			SPARE CONTACT		
J24-U*	J41-DD	A 368R	WIRED SPARE	22	241
J24-V*	J41-EE	A 368L	WIRED SPARE	22	242
J24-W*	TB13-4B	A 369R	SHAFT CDU 1/2X COSINE LO P4	24	202
J24-X*	TB13-5B	A 369L	SHAFT CDU 1/2X COSINE HI P2	24	204
J24-Y*	TB7-3A	A 370L	SHAFT CDU 1/2X SINE HI P1	24	199
J24-Z*	TB7-4A	A 370R	SHAFT CDU 1/2X SINE LO P3	24	201
J24-AA	J41-HH	A 373W	SXT SHAFT 1/2X RESOLVER LOAD	24	216

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J24			61 PIN CONNECTOR MS 3127E24-61S (1897056-610)		
J24-BB	J41-GG	A 371R	SXT SHAFT 1/2X RESOLVER ERROR LO	24	219
J24-CC	TB13-17C	A 372R	800 CPS 28 V 1 PERCENT HI OPTICS	24	198
J24-DD	TB13-18C	A 372L	800 CPS 28 V 1 PERCENT LO OPTICS	24	200
J24-EE			SPARE CONTACT		
J24-FF			SPARE CONTACT		
J24-GG			SPARE CONTACT		
J24-HH	J41-FF	A 371L	SXT SHAFT 1/2X RESOLVER ERROR HI	24	231
J24-JJ	TB13-19C	A 270R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
J24-KK	TB13-20C	A 270L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
J24-LL			SPARE CONTACT		
J24-MM	J35-EE	A 375R	AS 16X RESOLVER P2 TRIM	24	234
J24-NN	J35-FF	A 375L	AT 64X RESOLVER P2 TRIM	24	236
J24-PP	J35-GG	A 375Y	AT 64X RESOLVER P2 TRIM	24	238
			J25 61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)		
J25-A	XF5-1	A1108R	2 V 3200 CPS HI	20	245
J25-B	E43B	A 376	CABLE W39 SHIELD GROUND	20	3
J25-C	E6	A1108L	2 V 3200 CPS LO	20	6
J25-D	J44-F*	A 377W	IRIG ZERO RESISTANCE	24	249
J25-E	J44-G*	A 378W	ACCEL ZERO RESISTANCE	24	251
J25-F	J44-I*	A 379W	ACCEL GAIN RESISTANCE	24	253
J25-G	J44-K*	A 380W	IRIG GAIN RESISTANCE	24	255
J25-H	J11-K*	A 283	+20 VDC CONDITIONING	24	76
J25-J	J11-I*	A 279	0 VDC CONDITIONING	24	75
J25-K	TB13-12F	A 785	+28 VDC IMU	20	90
J25-L			SPARE CONTACT		
J25-M	TB13-1E	A 383R	800 CPS 5 PERCENT CDU AND BLOWER HI	20	107
J25-N	TB13-2E	A 383L	800 CPS 5 PERCENT CDU AND BLOWER LO	20	109
J25-P	J11-E*	A 281R	800 CPS 28 V 5 PCT IMU WH PH A (HI)	24	69

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SCALE-NONE	REV LTR C	SHEET 79 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J25			61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)		
J25-R	J11-F*	A 281Y	800 CPS 28 V 5 PCT IMU WH PH B (HI)	24	71
J25-S	J11-G*	A 281L	800 CPS 28 V 5 PCT IMU WH LO	24	72
J25-T	TB11-4D	A 385R	28 V 800 CPS 1 PERCENT ISS 0 DEG HI	24	268
J25-U	TB11-6D	A 385L	28 V 800 CPS 1 PERCENT ISS 0 DEG LO	24	269
J25-V	TB17-20D	A 386R	2.5 VOLT 25.6 KC HI	24	270
J25-W	TB17-19D	A 386L	2.5 VOLT 25.6 KC LO	24	271
J25-X			SPARE CONTACT		
J25-Y			SPARE CONTACT		
J25-Z			SPARE CONTACT		
J25-A*	J3-DD	A 388R	3200 CPS 2V FDBK HI	20	246
J25-B*	J3-CC	A 388L	3200 CPS 2V FDBK LO	20	247
J25-C*	TB13-9B	A 389	0 VDC (SPACECRAFT)	20	248
J25-D*	K8-1	A 390	28 VDC FOR M AND DV	20	250
J25-E*	J9-FF	A 223	DUCOSYN EXC SWITCHING RELAY HI	20	252
J25-F*	J9-GG	A 224	DUCOSYN EXC SWITCHING RELAY LO	20	254
J25-G*	J11-CC	A 296R	IMU PRESSURE MONITOR HI	24	66
J25-H*	J11-DD	A 296L	IMU PRESSURE MONITOR LO	24	68
J25-I*	J3-K	A1110R	25.6 KC HI IMU	20	257
J25-J*	J3-L	A1110L	25.6 KC LO IMU	20	258
J25-K*	TB13-10D	A 265	ZEROING RESOLVER EXCITATION	24	260
J25-M*	TB13-11D	A 392	28 VDC CDU NOT LOCK	24	263
J25-N*	TB11-19B	A1125	MG LOCK INDICATION	20	265
J25-P*	J11-F	A 249W	IMU TEMP CONTR FAIL LIGHT HI	22	70
J25-Q*	TB12-19	A1111	28 VDC ISS STANDBY HI	20	88
J25-R*			SPARE CONTACT		
J25-S*	J11-P*	A 286	+28 VDC AGC	20	84
J25-T*	J11-Q*	A 287	0 VDC IMU	20	86
J25-U*	J11-U*	A 291R	IG TORQ MTR HI	24	93
J25-V*	J11-V*	A 291L	IG TORQ MTR RET	24	95
J25-W*	J11-W*	A 292R	MG TORQ MTR HI	24	97
J25-X*	J11-X*	A 292L	MG TORQ MTR RET	24	99
J25-Y*	J11-Y*	A 293R	OG TORQ MTR HI	24	101

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SCALE-NONE	REV LTR C	SHEET 80 OF 245

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J25			61 PIN CONNECTOR MS 3127E24-61PW (1897055-611)		
J25-Z*	J11-Z*	A 293L	OG TORQ MTR RET	24	102
J25-AA	J11-LL	A 297	ACCEL TEMP (TELE)	24	77
J25-BB	J11-MM	A 298	IRIG TEMP (TELE)	24	79
J25-CC	J11-H*	A 282	TEMP CONTR SIG LO	20	74
J25-DD	J11-NN	A 299	HTR CURR (TELE)	24	82
J25-EE	J11-PP	A 300	BLWR CURR SENSOR (TELE)	24	85
J25-FF	J11-M*	A 284	+2.5 VDC CONDITIONING HI	24	78
J25-GG	J11-N*	A 285	2.5 VDC CONDITIONING LO	24	81
J25-HH	K47-10	A 394R	MG CDU MDA OUTPUT HI	22	256
J25-JJ	K47-7	A 394Y	0 VDC IMU C.T.	22	259
J25-KK	K47-4	A 394L	MG CDU MDA OUTPUT LO	22	261
J25-LL	K51-10	A 395R	OG CDU MDA OUTPUT HI	22	262
J25-MM	K51-7	A 395Y	0 VDC IMU C.T.	22	264
J25-NN	K51-4	A 395L	OG CDU MDA OUTPUT LO	22	266
J25-PP	K22-7	A 396	28 VDC HI	20	267
			J26 61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)		
J26-A	SHLD A399	A 399A	SHIELD FEEDTHRU	22	272
J26-B	E47B	A 397	CABLE W40 SHIELD GROUND	20	3
J26-C	J9-C	A1078	27 VDC RLP HI	20	273
J26-D	J11-C	A1197	+32 VDC PIP	20	620
J26-E	J11-E	A1198	+120 VDC PIP	20	622
J26-F	J11-D	A1199	+32 VDC, +120 VDC PIP RET.	20	621
J26-G	J33-V*	A 398R	MG CDU ENCODER PHASE 1	24	277
J26-H	J33-W*	A 398L	MG CDU ENCODER PHASE 2	24	279
J26-J	J33-X*	A 398Y	MG CDU ENCODER COMMON	24	281
J26-K	J38-V*	A 399R	IG CDU ENCODER PHASE 1	24	282
J26-L	J38-W*	A 399L	IG CDU ENCODER PHASE 2	24	283
J26-M	J38-X*	A 399Y	IG CDU ENCODER COMMON	24	284

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J26			61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)		
J26-N	J32-V*	A 400R	OG CDU ENCODER PHASE 1	24	286
J26-P	J32-W*	A 400L	OG CDU ENCODER PHASE 2	24	289
J26-R	J32-X*	A 400Y	OG CDU ENCODER COMMON	24	292
J26-S	SHLD A398	A 398A	SHIELD FEEDTHRU	22	293
J26-T	SHLD A400	A 400A	SHIELD FEEDTHRU	22	294
J26-U	TB7-9B	A 401R	DUCOSYN EXCITATION FEEDBACK HI	20	80
J26-V	TB7-10B	A 401L	DUCOSYN EXCITATION FEEDBACK LO	20	83
J26-W	J44-J*	A 402W	IRIG TEMP GAIN SWITCH N.C.	24	298
J26-X			SPARE CONTACT		
J26-Y			SPARE CONTACT		
J26-Z			SPARE CONTACT		
J26-A*			SPARE CONTACT		
J26-B*			SPARE CONTACT		
J26-C*			SPARE CONTACT		
J26-D*	TB13-7C	A 405R	INNER GIMBAL ERROR SIGNAL HI	22	150
J26-E*	TB13-8C	A 405L	INNER GIMBAL ERROR SIGNAL LO	22	152
J26-F*			SPARE CONTACT		
J26-G*			SPARE CONTACT		
J26-H*	K54-11	A 407R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
J26-I*	K54-14	A 407L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
J26-J*	K55-4	A 408R	OUTER GIMBAL ERROR SIGNAL HI	24	166
J26-K*	K55-7	A 408L	OUTER GIMBAL ERROR SIGNAL LO	24	169
J26-M*	K60-7	A 409R	IG CDU 16X ERROR SIGNAL HI	24	285
J26-N*	K60-4	A 409L	IG CDU 16X ERROR SIGNAL LO	24	287
J26-P*	K43-16	A 410R	IG CDU 1X ERROR SIGNAL HI	24	290
J26-Q*	K43-13	A 410L	IG CDU 1X ERROR SIGNAL LO	24	291
J26-R*	K42-10	A 411R	IG CDU MDA TACH SIGNAL	24	30
J26-S*	K42-7	A 411L	IG CDU MDA INPUT RETURN	24	32
J26-T*	K42-4	A 411Y	IG CDU MDA SLEW SIGNAL	24	295
J26-U*	K64-7	A 412R	MG CDU 16X ERROR SIGNAL HI	24	296
J26-V*	K64-4	A 412L	MG CDU 16X ERROR SIGNAL LO	24	297
J26-W*	K47-16	A 413R	MG CDU 1X ERROR SIGNAL HI	24	299

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J31	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J31-Y	TB13-15B	A 459R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198
J31-Z	TB13-16B	A 459L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
J31-A*			SPARE CONTACT		
J31-B*	TB13-15E	A 460R	28 V 800 CPS 1 PERCENT 0 DEG HI	24	198
J31-C*	TB13-16E	A 460L	28 V 800 CPS 1 PERCENT 0 DEG LO	24	200
J31-D*	TB13-16D	A1061	28 V 800 CPS 1 PERCENT 0 DEG LO	20	200
J31-E*	TB17-18B	A 461R	TRUNNION CDU 1/4X SIN HI	24	228
J31-F*	TB17-17B	A 461L	TRUNNION CDU 1/4X SIN LO	24	230
J31-G*	TB7-5B	A 462R	TRUNNION CDU 1/4X COS HI	24	224
J31-H*	TB7-6B	A 462L	TRUNNION CDU 1/4X COS LO	24	226
J31-I*	TB17-13A	A 463R	TRUNNION CDU 1/2X SIN HI P2	24	363
J31-J*	TB17-14A	A 463L	TRUNNION CDU 1/2X SIN LO P3	24	364
J31-K*	TB17-14C	A 271	TRUNNION CDU 1/2 X SIN LO	24	364
J31-M*	J41-Q*	A 464R	WIRED SPARE	24	368
J31-N*	J41-R*	A 464L	WIRED SPARE	24	369
J31-P*	J41-S*	A 465R	TRUNNION RESOLVER LOAD 1/2X S2	24	370
J31-Q*	J41-T*	A 465L	TRUNNION RESOLVER LOAD 1/2X S4	24	371
J31-R*	J36-AA	A 466R	WIRED SPARE	24	372
J31-S*	J36-BB	A 466L	WIRED SPARE	24	373
J31-T*	J36-CC	A 468W	WIRED SPARE	24	374
J31-U*	J42-X*	A 469L	TRUNNION CDU 16X SIN LO	24	375
J31-V*	J42-W*	A 469R	TRUNNION CDU 16X SIN HI	24	376
J31-W*	J42-Z*	A 470L	TRUNNION CDU 16X COS LO	24	377
J31-X*	J42-Y*	A 470R	TRUNNION CDU 16X COS HI	24	378
J31-Y*	J36-DD	A 471R	WIRED SPARE	24	379
J31-Z*	J36-EE	A 471L	WIRED SPARE	24	380
J31-AA	J36-FF	A 471Y	WIRED SPARE	24	357
J31-BB			SPARE CONTACT		
J31-CC	TB17-15C	A 472R	25.6 KC ENCODER EXCITATION HI	24	359
J31-DD	TB17-16C	A 472L	25.6 KC ENCODER EXCITATION LO	24	361
J31-EE	TB13-13B	A 473W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
J31-FF	TB13-14B	A 474	800 CPS 5 PERCENT LO	24	186

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J31	61 PIN CONNECTOR MS 3127E24-61SZ (1897056-614)				
J31-GG			SPARE CONTACT		
J31-HH	J36-GG	A 476R	WIRED SPARE	24	362
J31-JJ	J36-HH	A 476L	WIRED SPARE	24	365
J31-KK	J35-M*	A1138R	TRUNNION CDU MOTOR CONTROL WINDING HI	20	366
J31-LL	J35-N*	A1138L	TRUNNION CDU MOTOR CONTROL WINDING LO	20	367
J31-MM	K27-3	A1141	TRUNNION CDU MOTOR CONTROL WINDING C.T.	20	11
J31-NN	TB6-2E	A 478R	6 VOLT 400 CPS LAMP POWER HI	22	206
J31-PP	TB6-5E	A 478L	6 VOLT 400 CPS LAMP POWER LO	22	7
	J32 61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J32-A			SPARE CONTACT		
J32-B	E52B	A 480	CABLE W47 SHIELD GROUND	20	3
J32-C	SHLD A400	A 400B	SHIELD FEEDTHRU	22	294
J32-D	R1-1	A1129	6 VOLT 400 CPS ISS LOAD	20	381
J32-E	TB6-5C	A1130	6 VOLT 400 CPS LAMP POWER LO	20	7
J32-F			SPARE CONTACT		
J32-G			SPARE CONTACT		
J32-H			SPARE CONTACT		
J32-J			SPARE CONTACT		
J32-K			SPARE CONTACT		
J32-L			SPARE CONTACT		
J32-M			SPARE CONTACT		
J32-N			SPARE CONTACT		
J32-P			SPARE CONTACT		
J32-R			SPARE CONTACT		
J32-S			SPARE CONTACT		
J32-T			SPARE CONTACT		
J32-U			SPARE CONTACT		
J32-V			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J32	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J32-W			SPARE CONTACT		
J32-X			SPARE CONTACT		
J32-Y			SPARE CONTACT		
J32-Z	J27-P	A 423	OG CDU MDA PLUS 28 VDC	20	312
J32-A*	J27-T*	A 439W	OG CDU 16X RESOLVER LOAD	24	317
J32-B*	TB13-10C	A 482	ZEROING RESOLVER EXCITATION	24	260
J32-C*	TB11-4A	A 483R	28 VOLT 800 CPS 1 PERCENT HI	24	268
J32-D*	TB11-5A	A 483L	28 VOLT 800 CPS 1 PERCENT LO	24	269
J32-E*	K51-17	A 484R	OG 1/2X ERROR HI	24	54
J32-F*	K51-14	A 484L	OG 1/2X ERROR LO	24	56
J32-G*	TB17-5C	A 485R	OG 1X ERROR HI	24	278
J32-H*	TB17-6C	A 485L	OG 1X ERROR LO	24	280
J32-I*	J27-S*	A 438W	OG CDU 1X RESOLVER LOAD	24	316
J32-J*	K66-13	A 486R	OG 1X COSINE HI	24	180
J32-K*	K66-10	A 486L	OG 1X COSINE LO	24	184
J32-M*	K66-7	A 487R	OG 1X SINE LO	24	151
J32-N*	K66-4	A 487L	OG 1X SINE HI	24	156
J32-P*	K68-8	A 488R	OG 16X ERROR HI	24	275
J32-Q*	K68-5	A 488L	OG 16X ERROR LO	24	276
J32-R*	K65-13	A 489R	OG 16X COSINE HI	24	55
J32-S*	K65-10	A 489L	OG 16X COSINE LO	24	57
J32-T*	K65-7	A 490R	OG 16X SINE LO	24	47
J32-U*	K65-4	A 490L	OG 16X SINE HI	24	45
J32-V*	J26-N	A 400R	OG CDU ENCODER PHASE 1	24	286
J32-W*	J26-P	A 400L	OG CDU ENCODER PHASE 2	24	289
J32-X*	J26-R	A 400Y	OG CDU ENCODER COMMON	24	292
J32-Y*	TB17-19B	A 491R	25.6 KC ENCODER EXCITATION LO	24	271
J32-Z*	TB17-20B	A 491L	25.6 KC ENCODER EXCITATION HI	24	270
J32-AA	TB13-12B	A 17	+28 VDC (IMU)	24	90
J32-BB	TB13-1B	A 492R	28 V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
J32-CC	TB13-2B	A 492L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
J32-DD	TB13-11C	A 494	+28 VDC NOT LOCK	24	263

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J32	61 PIN CONNECTOR MS 3127E24-61SX (1897056-612)				
J32-EE	K50-8	A 495L	OG CDU MDA LO	24	41
J32-FF	K50-5	A 495Y	OG CDU MDA SLEW	24	288
J32-GG	K50-11	A 495R	OG CDU MDA TACH	24	38
J32-HH	K51-5	A 496L	OG CDU MDA OUTPUT LO	24	266
J32-JJ	K51-11	A 496R	OG CDU MDA OUTPUT HI	24	262
J32-KK	K51-7	A 496Y	OG CDU MOTOR C.T. (0 VDC)	24	264
J32-LL	TB6-1C	A 497R	6 VOLT 400 CPS LAMP POWER HI	22	206
J32-MM	TB6-4C	A 497L	6 VOLT 400 CPS LAMP POWER LO	22	7
J32-NN	TB11-2C	A 498W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J32-PP	TB11-2B	A 499W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
	J33 61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J33-A			SPARE CONTACT		
J33-B	E54B	A 501	CABLE W48 SHIELD GROUND	20	3
J33-C	SHLD A398	A 398B	SHIELD FEEDTHRU	22	293
J33-D			SPARE CONTACT		
J33-E	J4-NN	A1121	MASTER WARNING LIGHT RETURN	20	382
J33-F	J4-PP	A1122	+28 VDC SPACECRAFT	20	383
J33-G	J4-LL	A1119	MASTER CAUTION LIGHT RETURN	20	384
J33-H	J4-MM	A1120	+28 VDC SPACECRAFT	20	385
J33-J			SPARE CONTACT		
J33-K			SPARE CONTACT		
J33-L			SPARE CONTACT		
J33-M			SPARE CONTACT		
J33-N			SPARE CONTACT		
J33-P			SPARE CONTACT		
J33-R			SPARE CONTACT		
J33-S			SPARE CONTACT		
J33-T			SPARE CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J33	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J33-U			SPARE CONTACT		
J33-V			SPARE CONTACT		
J33-W			SPARE CONTACT		
J33-X			SPARE CONTACT		
J33-Y			SPARE CONTACT		
J33-Z			SPARE CONTACT		
J33-A*	J27-N	A 422	MG CDU MDA PLUS 28 VDC	20	311
J33-B*	TB13-10B	A 503	ZEROING RESOLVER EXCITATION	24	260
J33-C*	TB11-4B	A 504R	28 VOLT 800 CPS 1 PERCENT HI	24	268
J33-D*	TB11-5B	A 504L	28 VOLT 800 CPS 1 PERCENT LO	24	269
J33-E*	K46-17	A 505R	MG 1/2X ERROR HI	24	58
J33-F*	K46-14	A 505L	MG 1/2X ERROR LO	24	59
J33-G*	TB17-3A	A 506R	MG 1X ERROR HI	24	299
J33-H*	TB17-4A	A 506L	MG 1X ERROR LO	24	300
J33-I*	J27-Q*	A 436W	MG CDU 1X RESOLVER LOAD	24	313
J33-J*	K62-13	A 507R	MG 1X COSINE HI	24	165
J33-K*	K62-10	A 507L	MG 1X COSINE LO	24	168
J33-M*	K62-7	A 508R	MG 1X SINE LO	24	172
J33-N*	K62-4	A 508L	MG 1X SINE HI	24	170
J33-P*	K64-8	A 509R	MG 16X ERROR HI	24	296
J33-Q*	K64-5	A 509L	MG 16X ERROR LO	24	297
J33-R*	K61-13	A 510R	MG 16X COSINE HI	24	28
J33-S*	K61-10	A 510L	MG 16X COSINE LO	24	29
J33-T*	K61-7	A 511R	MG 16X SINE LO	24	51
J33-U*	K61-4	A 511L	MG 16X SINE HI	24	49
J33-V*	J26-G	A 398R	MG CDU ENCODER PHASE 1	24	277
J33-W*	J26-H	A 398L	MG CDU ENCODER PHASE 2	24	279
J33-X*	J26-J	A 398Y	MG CDU ENCODER COMMON	24	281
J33-Y*	TB17-19C	A 512R	25.6 KC ENCODER EXCITATION LO	24	271
J33-Z*	TB17-20C	A 512L	25.6 KC ENCODER EXCITATION HI	24	270
J33-AA	TB13-12C	A 27	+28 VDC (IMU)	24	90
J33-BB	TB13-1C	A 513R	28 V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J33	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J33-CC	TB13-2C	A 513L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
J33-DD	TB13-11B	A 515	+28 VDC CDU NOT LOCK	24	263
J33-EE	K46-8	A 516L	MG CDU MDA LO	24	36
J33-FF	K46-5	A 516Y	MG CDU MDA SLEW	24	274
J33-GG	K46-11	A 516R	MG CDU MDA TACH	24	34
J33-HH	K47-5	A 517L	MG CDU MDA OUTPUT LO	24	261
J33-JJ	K47-11	A 517R	MG CDU MDA OUTPUT HI	24	256
J33-KK	K47-7	A 517Y	MG CDU MOTOR C.T. (0 VDC)	24	259
J33-LL	TB6-1D	A 518R	6 VOLT 400 CPS LAMP POWER HI	22	206
J33-MM	TB6-4D	A 518L	6 VOLT 400 CPS LAMP POWER LO	22	7
J33-NN	TB11-2E	A 519W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J33-PP	TB11-2D	A 520W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
	J34	55 PIN CONNECTOR MS 3127E22-55S (1897054-550)			
J34-A	XF17-1	A 272W	1.5 VOLT 400 CPS 0 PH	24	39
J34-B	E62B	A 521	CABLE W49 SHIELD GROUND	20	3
J34-C	J10-E*	A1055R	400 CPS 26 V HI	24	35
J34-D	J10-F*	A1055L	400 CPS 26 V LO	24	37
J34-E	XF18-1	A 273W	1.5 VOLT 400 CPS PI PH	24	42
J34-F	TB11-19C	A1126	GIMBAL LOCK SIGNAL	20	265
J34-G	E87B	A 274	0 VDC IMU	20	7
J34-H			SPARE CONTACT		
J34-J	E87B	A 275	AGC COMMON (SIMULATED)	20	7
J34-K	J8-BB	A 181	0 VDC IMU	20	402
J34-L	TB17-11A	A1157R	6 VOLT 400 CPS LAMP POWER HI	20	43
J34-M	J10-N	A1132W	400 CPS 6V LO	20	46
J34-N	TB17-12A	A1157L	6 VOLT 400 CPS LAMP POWER LO	20	7
J34-P	TB17-12E	A 523R	6 VOLT 400 CPS LAMP POWER LO	22	7
J34-R	TB17-12B	A 523L	6 VOLT 400 CPS LAMP POWER LO	22	7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J34	55 PIN CONNECTOR MS 3127E22-55S (1897054-550)				
J34-S			SPARE CONTACT		
J34-T	J10-GG	A1123W	GIMBAL LOCK LIGHT HI	20	40
J34-U	TB17-10B	A 524R	115 VOLT 400 CPS LO	20	136
J34-V	TB17-9B	A 524L	115 VOLT 400 CPS HI	20	135
J34-W	TB13-9C	A 525	0 VDC (SPACECRAFT)	22	248
J34-X	J4-M	A 526	MAIN PANEL GIMBAL LOCK LIGHT	22	414
J34-Y	K8-1	A1167	+28 VDC MDV	20	250
J34-Z	K68-1	A 528	FOR GSE USE ONLY	20	417
J34-A*	J39-P	A 529R	PITCH OUTPUT ATTITUDE ERROR METER PLUS	24	386
J34-B*	J39-R	A 529L	PITCH OUTPUT ATTITUDE ERROR METER MINUS	24	388
J34-C*	J39-S	A 530R	YAW OUTPUT ATTITUDE ERROR METER PLUS	22	390
J34-D*	J39-T	A 530L	YAW OUTPUT ATTITUDE ERROR METER MINUS	22	392
J34-E*	J39-M	A 531R	ROLL OUTPUT ATTITUDE ERROR METER PLUS	24	394
J34-F*	J39-N	A 531L	ROLL OUTPUT ATTITUDE ERROR METER MINUS	24	396
J34-G*	TB6-2D	A 532R	6 VOLT 400 CPS LAMP POWER HI	22	206
J34-H*	TB6-5D	A 532L	6 VOLT 400 CPS LAMP POWER LO	22	7
J34-I*	J39-U	A 533	MODE SWITCH INTERLOCK (0 VDC)	24	400
J34-J*	J39-V	A 534	ENTRY RELAY CONTROL	24	401
J34-K*	J39-W	A 535	ENTRY MODE LIGHT	24	403
J34-M*	K60-1	A 536	FOR GSE USE ONLY	24	404
J34-N*	J8-X*	A 177	TRANSFER SWITCH INDICATION TO AGC	24	405
J34-P*	J8-Y*	A 178	ATTITUDE CONTROL MODE COMMAND FROM AGC	24	406
J34-Q*	J39-Y	A 537	ATTITUDE CONTROL SIGNAL	24	407
J34-R*	J8-Z*	A 179	MODE RELAY COMMON TO AGC	24	408
J34-S*	J39-Z	A 538	MODE RELAY COMMON	24	409
J34-T*	J39-B*	A 539	ENTRY RELAY CONTROL RESET	24	410
J34-U*	J39-C*	A 540	ZERO ENCODER RELAY CONTROL	24	411
J34-V*	J8-AA	A 180	MODE RELAY COMMON	24	412
J34-W*	K64-1	A 541	FOR GSE USE ONLY	20	413
J34-X*	J39-F*	A 542W	ZERO ENCODER MODE LIGHT	24	415
J34-Y*	J39-G*	A 543	MANUAL ALIGN ENABLE	20	416
J34-Z*	J39-H*	A 544W	COARSE ALIGN MODE LAMP	24	418

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J34	55 PIN CONNECTOR MS 3127E22-55S (1897054-550)				
J34-AA	J39-I*	A 545	COARSE ALIGN RELAY CONTROL	20	387
J34-BB	J39-J*	A 546	CDU MANUAL RELAY CONTROL	20	389
J34-CC	J39-K*	A 547W	CDU MANUAL MODE LAMP	24	391
J34-DD	J8-S	A 262	BACK-UP MODE RELAY CONTR	24	393
J34-EE	J39-N*	A 549	FINE ALIGN RELAY CONTROL	24	395
J34-FF	J39-P*	A 550W	FINE ALIGN MODE LAMP	24	397
J34-GG	J39-Q*	A 551W	ATTITUDE CONTROL MODE LAMP	24	398
J34-HH	J8-CC	A 182	ATTITUDE CONTR RELAY CONTR	24	399
	J35	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)			
J35-A			SPARE CONTACT		
J35-B	E57B	A 552	CABLE W50 SHIELD GROUND	20	3
J35-C			SPARE CONTACT		
J35-D			SPARE CONTACT		
J35-E	J24-A	A 349R	SXT SHAFT MOTOR CONTROL WINDING RED	20	214
J35-F	J24-C	A 349Y	SXT SHAFT MOTOR CONTROL WINDING BLACK	20	220
J35-G	J24-B	A 349L	28 VDC OPTICS HI	20	217
J35-H	TB6-10B	A 277L	SCT SHAFT MOTOR CONTROL WINDING	20	188
J35-J	TB6-9B	A 277Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
J35-K	TB6-16A	A 277R	OPTICS +28 VDC	20	187
J35-L	TB13-13C	A 553R	28 V 800 CPS 5 PERCENT OPTICS HI	24	185
J35-M	TB13-14C	A 553L	28 V 800 CPS 5 PERCENT OPTICS LO	24	186
J35-N	TB17-15A	A 554R	2.5 V 25.6 KC OPTICS HI	24	359
J35-P	TB17-16A	A 554L	2.5 V 25.6 KC OPTICS LO	24	361
J35-R	TB6-14B	A 278R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
J35-S	TB6-12B	A 278Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
J35-T	TB6-13B	A 278L	OPTICS +28 VDC	24	192
J35-U	J23-V	A 340R	SCT 1X TRUNNION RSVR COS HI P3	24	210
J35-V	J23-W	A 340L	SCT 1X TRUNNION RSVR COS LO P1	24	211

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J35	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J35-W	J23-X	A 341R	SCT 1X TRUNNION RSVR P2	24	212
J35-X	J23-Y	A 341L	SCT 1X TRUNNION RSVR P4	24	213
J35-Y	TB13-17D	A 555R	28 V 800 CPS 1 PERCENT OPTICS HI	24	198
J35-Z	TB13-18D	A 555L	28 V 800 CPS 1 PERCENT OPTICS LO	24	200
J35-A*			SPARE CONTACT		
J35-B*			SPARE CONTACT		
J35-C*			SPARE CONTACT		
J35-D*	J37-F*	A 556W	SHAFT CDU 1X ERROR S1	24	419
J35-E*	J37-G*	A 557R	SHAFT CDU 1X ERROR S2	24	420
J35-F*	J37-H*	A 557L	SHAFT CDU 1X ERROR S3	24	421
J35-G*	J37-GG	A1139R	SHAFT CDU MOTOR CONTROL WINDING HI	20	422
J35-H*	J37-HH	A1139L	SHAFT CDU MOTOR CONTROL WINDING LO	20	423
J35-I*			SPARE CONTACT		
J35-J*	TB17-13B	A 83R	TRUNNION CDU 1/2X SIN HI P2	24	363
J35-K*	TB17-14B	A 83L	TRUNNION CDU 1/2X SIN LO P3	24	364
J35-M*	J31-KK	A1138R	TRUNNION CDU MOTOR CONTROL WINDING HI	20	366
J35-N*	J31-LL	A1138L	TRUNNION CDU MOTOR CONTROL WINDING LO	20	367
J35-P*			SPARE CONTACT		
J35-Q*	J43-X	A 559	WIRED SPARE	24	424
J35-R*			SPARE CONTACT		
J35-S*			SPARE CONTACT		
J35-T*			SPARE CONTACT		
J35-U*			SPARE CONTACT		
J35-V*	J24-G	A 351L	28 VDC OPTICS HI	24	227
J35-W*	J24-F	A 351R	SXT TRUNNION MOTOR CONTROL WINDING RED	24	225
J35-X*	J24-H	A 351Y	SXT TRUNNION MOTOR CONTROL WINDING BLACK	24	229
J35-Y*	TB13-3C	A 560	27 VDC RLP LO OSS ONLY	24	356
J35-Z*			SPARE CONTACT		
J35-AA			SPARE CONTACT		
J35-BB			SPARE CONTACT		
J35-CC			SPARE CONTACT		
J35-DD			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J35	61 PIN CONNECTOR MS 3127E24-61P (1897055-610)				
J35-EE	J24-MM	A 375R	AS 16X RESOLVER P2 TRIM	24	234
J35-FF	J24-NN	A 375L	AT 64X RESOLVER P2 TRIM	24	236
J35-GG	J24-PP	A 375Y	AT 64X RESOLVER P2 TRIM	24	238
J35-HH			SPARE CONTACT		
J35-JJ			SPARE CONTACT		
J35-KK			SPARE CONTACT		
J35-LL			SPARE CONTACT		
J35-MM			SPARE CONTACT		
J35-NN			SPARE CONTACT		
J35-PP			SPARE CONTACT		
J36	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J36-A			SPARE CONTACT		
J36-B	E58B	A 561	CABLE W51 SHIELD GROUND	20	3
J36-C			SPARE CONTACT		
J36-D			SPARE CONTACT		
J36-E			SPARE CONTACT		
J36-F			SPARE CONTACT		
J36-G			SPARE CONTACT		
J36-H			SPARE CONTACT		
J36-J			SPARE CONTACT		
J36-K			SPARE CONTACT		
J36-L			SPARE CONTACT		
J36-M			SPARE CONTACT		
J36-N			SPARE CONTACT		
J36-P			SPARE CONTACT		
J36-R			SPARE CONTACT		
J36-S			SPARE CONTACT		
J36-T			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J36	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J36-U			SPARE CONTACT		
J36-V			SPARE CONTACT		
J36-W	SHLD A570	A 570A	WIRED SPARE	22	440
J36-X	SHLD A471	A 471B	WIRED SPARE	22	358
J36-Y			SPARE CONTACT		
J36-Z			SPARE CONTACT		
J36-A*			SPARE CONTACT		
J36-B*			SPARE CONTACT		
J36-C*			SPARE CONTACT		
J36-D*			SPARE CONTACT		
J36-E*	K30-16	A 562R	AS DIRECT INPUT HI (PRE-AMP PSA)	24	425
J36-F*	K30-15	A 562L	AS DIRECT INPUT LO (PRE-AMP PSA)	24	426
J36-G*	K30-19	A 563R	AS RESOLVED INPUT HI (RSVR AMP PSA)	24	427
J36-H*	K30-18	A 563L	AS RESOLVED INPUT LO (RSVR AMP PSA)	24	428
J36-I*	K19-16	A 564R	AT DIRECT INPUT HI (PRE-AMP PSA)	24	429
J36-J*	K19-15	A 564L	AT DIRECT INPUT LO (PRE-AMP PSA)	24	430
J36-K*	K19-19	A 565R	AT RESOLVED INPUT HI (RSVR AMP PSA)	24	431
J36-M*	K19-18	A 565L	AT RESOLVED INPUT LO (RSVR AMP PSA)	24	428
J36-N*	J37-N*	A 566R	WIRED SPARE	24	432
J36-P*	J37-P*	A 566L	WIRED SPARE	24	433
J36-Q*	J37-Q*	A 567W	WIRED SPARE	24	434
J36-R*	J37-R*	A 568R	SHAFT CDU 16X COSINE HI P1	24	435
J36-S*	J37-S*	A 568L	SHAFT CDU 16X COSINE LO P3	24	436
J36-T*	J37-T*	A 569R	SHAFT CDU 16X SINE HI P2	24	437
J36-U*	J37-U*	A 569L	SHAFT CDU 16X SINE LO P4	24	438
J36-V*	J37-V*	A 570R	WIRED SPARE	24	439
J36-W*	J37-W*	A 570L	WIRED SPARE	24	441
J36-X*	J37-X*	A 570Y	WIRED SPARE	24	442
J36-Y*	J37-EE	A 571R	WIRED SPARE	24	443
J36-Z*	J37-FF	A 571L	WIRED SPARE	24	444
J36-AA	J31-R*	A 466R	WIRED SPARE	24	372
J36-BB	J31-S*	A 466L	WIRED SPARE	24	373

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J36	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J36-CC	J31-T*	A 468W	WIRED SPARE	24	374
J36-DD	J31-Y*	A 471R	WIRED SPARE	24	379
J36-EE	J31-Z*	A 471L	WIRED SPARE	24	380
J36-FF	J31-AA	A 471Y	WIRED SPARE	24	357
J36-GG	J31-HH	A 476R	WIRED SPARE	24	362
J36-HH	J31-JJ	A 476L	WIRED SPARE	24	365
J36-JJ			SPARE CONTACT		
J36-KK			SPARE CONTACT		
J36-LL			SPARE CONTACT		
J36-MM			SPARE CONTACT		
J36-NN			SPARE CONTACT		
J36-PP			SPARE CONTACT		
J37	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J37-A			SPARE CONTACT		
J37-B	E61B	A 573	CABLE W52 SHIELD GROUND	20	3
J37-C	SHLD A570	A 570B	WIRED SPARE	22	440
J37-D			SPARE CONTACT		
J37-E			SPARE CONTACT		
J37-F			SPARE CONTACT		
J37-G			SPARE CONTACT		
J37-H			SPARE CONTACT		
J37-J			SPARE CONTACT		
J37-K			SPARE CONTACT		
J37-L			SPARE CONTACT		
J37-M			SPARE CONTACT		
J37-N			SPARE CONTACT		
J37-P			SPARE CONTACT		
J37-R			SPARE CONTACT		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J37	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J37-S			SPARE CONTACT		
J37-T			SPARE CONTACT		
J37-U			SPARE CONTACT		
J37-V			SPARE CONTACT		
J37-W			SPARE CONTACT		
J37-X			SPARE CONTACT		
J37-Y	TB13-15A	A 575R	28 V 800 CPS 0 DEG 1 PERCENT HI	24	198
J37-Z	TB13-16A	A 575L	28 V 800 CPS 0 DEG 1 PERCENT LO	24	200
J37-A*			SPARE CONTACT		
J37-B*	TB7-3D	A 576R	SHAFT CDU 1/2X SIN HI	24	199
J37-C*	TB7-4D	A 576L	SHAFT CDU 1/2X SIN LO	24	201
J37-D*	TB13-4C	A 577R	SHAFT CDU 1/2X COS HI	24	202
J37-E*	TB13-5C	A 577L	SHAFT CDU 1/2X COS LO	24	204
J37-F*	J35-D*	A 556W	SHAFT CDU 1X ERROR S1	24	419
J37-G*	J35-E*	A 557R	SHAFT CDU 1X ERROR S2	24	420
J37-H*	J35-F*	A 557L	SHAFT CDU 1X ERROR S3	24	421
J37-I*	J41-F*	A 578R	SHAFT CDU 1X SIN HI	24	445
J37-J*	J41-E*	A 578L	SHAFT CDU 1X SIN LO	24	446
J37-K*	J41-H*	A 579L	SHAFT CDU 1X COS LO	24	447
J37-M*	J41-G*	A 579R	SHAFT CDU 1X COS HI	24	448
J37-N*	J36-N*	A 566R	WIRED SPARE	24	432
J37-P*	J36-P*	A 566L	WIRED SPARE	24	433
J37-Q*	J36-Q*	A 567W	WIRED SPARE	24	434
J37-R*	J36-R*	A 568R	SHAFT CDU 16X COSINE HI P1	24	435
J37-S*	J36-S*	A 568L	SHAFT CDU 16X COSINE LO P3	24	436
J37-T*	J36-T*	A 569R	SHAFT CDU 16X SINE HI P2	24	437
J37-U*	J36-U*	A 569L	SHAFT CDU 16X SINE LO P4	24	438
J37-V*	J36-V*	A 570R	WIRED SPARE	24	439
J37-W*	J36-W*	A 570L	WIRED SPARE	24	441
J37-X*	J36-X*	A 570Y	WIRED SPARE	24	442
J37-Y*	TB17-15D	A 580R	25.6 KC ENCODER EXCITATION HI	24	359
J37-Z*	TB17-16D	A 580L	25.6 KC ENCODER EXCITATION LO	24	361

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J37	61 PIN CONNECTOR MS 3127E24-61SY (1897056-613)				
J37-AA			SPARE CONTACT		
J37-BB	TB13-13A	A 581W	800 CPS 5 PERCENT MINUS 90 DEG OPTICS HI	24	185
J37-CC	TB13-14A	A 266	28 V 800 CPS 5 PERCENT LO	24	186
J37-DD			SPARE CONTACT		
J37-EE	J36-Y*	A 571R	WIRED SPARE	24	443
J37-FF	J36-Z*	A 571L	WIRED SPARE	24	444
J37-GG	J35-G*	A1139R	SHAFT CDU MOTOR CONTROL WINDING HI	20	422
J37-HH	J35-H*	A1139L	SHAFT CDU MOTOR CONTROL WINDING LO	20	423
J37-JJ	K28-3	A1140	SHAFT CDU MOTOR CONTROL WINDING C.T.	20	10
J37-KK	TB6-1E	A 583R	6 VOLT 400 CPS LAMP POWER HI	22	206
J37-LL	TB6-4E	A 583L	6 VOLT 400 CPS LAMP POWER LO	22	7
J37-MM	TB13-20D	A 584L	28 V 800 CPS 1 PERCENT LO	24	200
J37-NN	TB13-20E	A 584Y	28 V 800 CPS 1 PERCENT LO	24	200
J37-PP	TB13-19D	A 584R	28 V 800 CPS 1 PERCENT HI	24	198
	J38 61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J38-A			SPARE CONTACT		
J38-B	E60B	A 586	CABLE W54 SHIELD GROUND	20	3
J38-C	SHLD A399	A 399B	SHIELD FEEDTHRU	22	272
J38-D			SPARE CONTACT		
J38-E			SPARE CONTACT		
J38-F			SPARE CONTACT		
J38-G			SPARE CONTACT		
J38-H			SPARE CONTACT		
J38-J			SPARE CONTACT		
J38-K			SPARE CONTACT		
J38-L			SPARE CONTACT		
J38-M			SPARE CONTACT		
J38-N			SPARE CONTACT		

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J38	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J38-P			SPARE CONTACT		
J38-R			SPARE CONTACT		
J38-S			SPARE CONTACT		
J38-T			SPARE CONTACT		
J38-U			SPARE CONTACT		
J38-V			SPARE CONTACT		
J38-W			SPARE CONTACT		
J38-X			SPARE CONTACT		
J38-Y			SPARE CONTACT		
J38-Z			SPARE CONTACT		
J38-A*	J27-M	A 421	IG CDU MDA PLUS 28 VDC	20	310
J38-B*	TB13-10A	A 588	ZERUING RESOLVER EXCITATION	24	260
J38-C*	TB11-4C	A 589R	28 V 800 CPS 1 PERCENT HI	24	268
J38-D*	TB11-5C	A 589L	28 V 800 CPS 1 PERCENT LO	24	269
J38-E*	K42-17	A 590R	IG 1/2X ERROR HI	24	60
J38-F*	K42-14	A 590L	IG 1/2X ERROR LO	24	61
J38-G*	TB17-1A	A 591R	IG 1X ERROR HI	24	290
J38-H*	TB17-2A	A 591L	IG 1X ERROR LO	24	291
J38-I*	J27-R*	A 437W	IG CDU 1X RESOLVER LOAD	24	314
J38-J*	K58-13	A 592R	IG 1X COSINE HI	24	139
J38-K*	K58-10	A 592L	IG 1X COSINE LO	24	141
J38-M*	K58-7	A 593R	IG 1X SINE LO	24	145
J38-N*	K58-4	A 593L	IG 1X SINE HI	24	143
J38-P*	K60-8	A 594R	IG 16X ERROR HI	24	235
J38-Q*	K60-5	A 594L	IG 16X ERROR LO	24	287
J38-R*	K57-13	A 595R	IG 16X COSINE HI	24	31
J38-S*	K57-10	A 595L	IG 16X COSINE LO	24	33
J38-T*	K57-7	A 596R	IG 16X SINE LO	24	53
J38-U*	K57-4	A 596L	IG 16X SINE HI	24	52
J38-V*	J26-K	A 399R	IG CDU ENCODER PHASE 1	24	282
J38-W*	J26-L	A 399L	IG CDU ENCODER PHASE 2	24	283
J38-X*	J26-M	A 399Y	IG CDU ENCODER COMMON	24	284

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) J38	61 PIN CONNECTOR MS 3127E24-61SW (1897056-611)				
J38-Y*	TB17-19A	A 597R	25.6 KC ENCODER EXCITATION LO	24	271
J38-Z*	TB17-20A	A 597L	25.6 KC ENCODER EXCITATION HI	24	270
J38-AA	TB13-12D	A 333	IMU #28 VDC	24	90
J38-BB	TB13-1D	A 598R	28 V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
J38-CC	TB13-2D	A 598L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
J38-DD	TB13-11A	A 600	28 VDC CDU NOT LOCK	24	263
J38-EE	K42-8	A 601L	IG CDU MDA LO	24	32
J38-FF	K42-5	A 601Y	IG CDU MDA SLEW	24	295
J38-GG	K42-11	A 601R	IG CDU MDA TACH	24	30
J38-HH	K43-5	A 602L	IG CDU MDA OUTPUT LO	24	162
J38-JJ	K43-11	A 602R	IG CDU MDA OUTPUT HI	24	154
J38-KK	K43-7	A 602Y	IG CDU MOTOR C.T. (0 VDC)	24	157
J38-LL	TB6-1B	A 603R	6 VOLT 400 CPS LAMP POWER HI	22	206
J38-MM	TB6-4B	A 603L	6 VOLT 400 CPS LAMP POWER LO	22	7
J38-NN	TB11-3B	A 604W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
J38-PP	TB11-2F	A 605W	28 V 800 CPS 0 DEG 1 PERCENT HI	24	268
	J39 55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)				
J39-A			SPARE CONTACT		
J39-B	E62B	A 607	CABLE W54 SHIELD GROUND	20	3
J39-C			SPARE CONTACT		
J39-D			SPARE CONTACT		
J39-E			SPARE CONTACT		
J39-F			SPARE CONTACT		
J39-G			SPARE CONTACT		
J39-H			SPARE CONTACT		
J39-J			SPARE CONTACT		
J39-K			SPARE CONTACT		
J39-L			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J39	55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)				
J39-M	J34-E*	A 531R	ROLL OUTPUT ATTITUDE ERROR METER PLUS	24	394
J39-N	J34-F*	A 531L	ROLL OUTPUT ATTITUDE ERROR METER MINUS	24	396
J39-P	J34-A*	A 529R	PITCH OUTPUT ATTITUDE ERROR METER PLUS	24	386
J39-R	J34-B*	A 529L	PITCH OUTPUT ATTITUDE ERROR METER MINUS	24	388
J39-S	J34-C*	A 530R	YAW OUTPUT ATTITUDE ERROR METER PLUS	22	390
J39-T	J34-D*	A 530L	YAW OUTPUT ATTITUDE ERROR METER MINUS	22	392
J39-U	J34-I*	A 533	MODE SWITCH INTERLOCK (0 VDC)	24	400
J39-V	J34-J*	A 534	ENTRY RELAY CONTROL	24	401
J39-W	J34-K*	A 535	ENTRY MODE LIGHT	24	403
J39-X	TB17-8B	A 608	CONDITION LAMP TEST	24	315
J39-Y	J34-Q*	A 537	ATTITUDE CONTROL SIGNAL	24	407
J39-Z	J34-S*	A 538	MODE RELAY COMMON	24	409
J39-A*	J8-DD	A 183	FINE ALIGN MODE COMMAND FROM AGC	24	449
J39-B*	J34-T*	A 539	ENTRY RELAY CONTROL RESET	24	410
J39-C*	J34-U*	A 540	ZERO ENCODER RELAY CONTROL	24	411
J39-D*	J8-EE	A 184W	FINE ALIGN MODE IND TO AGC	24	451
J39-E*			SPARE CONTACT		
J39-F*	J34-X*	A 542W	ZERO ENCODER MODE LIGHT	24	415
J39-G*	J34-Y*	A 543	MANUAL ALIGN ENABLE	20	416
J39-H*	J34-Z*	A 544W	COARSE ALIGN MODE LAMP	24	418
J39-I*	J34-AA	A 545	COARSE ALIGN RELAY CONTROL	20	387
J39-J*	J34-BB	A 546	CDU MANUAL RELAY CONTROL	20	389
J39-K*	J34-CC	A 547W	CDU MANUAL MODE LAMP	24	391
J39-M*	J8-T	A 153	BACK-UP MODE RELAY CONTR	20	453
J39-N*	J34-EE	A 549	FINE ALIGN RELAY CONTROL	24	395
J39-P*	J34-FF	A 550W	FINE ALIGN MODE LAMP	24	397
J39-Q*	J34-GG	A 551W	ATTITUDE CONTROL MODE LAMP	24	398
J39-R*	J4-F*	A 69	MODE RELAY COMMON	20	454
J39-S*			SPARE CONTACT		
J39-T*	J10-M	A113WW	400 CPS VAR ILLUM PWR HI	20	44
J39-U*	J8-GG	A 186	ENTRY MODE COMMAND FROM AGC	24	455
J39-V*	TB6-3B	A 611W	VARIABLE ILLUM AND IND LAMP PWR 400 CPS HI	20	206

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J39	55 PIN CONNECTOR MS 3127E22-55SX (1897054-552)				
J39-W*	TB6-3C	A 612W	400 CPS VARIABLE LAMP SUPPLY HI (FROM D AND C	20	206
J39-X*	J8-HH	A 187W	ENTRY MODE IND TO AGC	24	456
J39-Y*	J8-J	A 188	COARSE ALIGN MODE COMMAND FROM AGC	24	457
J39-Z*	J8-K	A 189	ZERO ENCODER MODE COMMAND FROM AGC	24	458
J39-AA	J8-L	A 190W	COARSE ALIGN MODE IND TO AGC	24	450
J39-BB			SPARE CONTACT		
J39-CC	J27-KK	A 448	DAC INHIBIT SIGNAL	24	308
J39-DD	TB13-6C	A 615	CDU MANUAL RELAY CONTROL (TO AGC)	24	302
J39-EE	TB11-1C	A 614	FINE ALIGN RELAY CONTROL (K-4)	24	303
J39-FF	J8-N	A 192	CDU MANUAL MODE COMMAND FROM AGC	24	452
J39-GG	J11-H	A 251W	IMU DELAY LIGHT HI	24	73
J39-HH			SPARE CONTACT		
J40	31 PIN CONNECTOR MS 3102A36-9S (1896854-090)				
J40-A	J7-J*	A 135	+28 VDC STBY BUS A	20	320
J40-A	J27-W	A1176	+28 VDC STBY BUS A	20	320
J40-B			SPARE CONTACT		
J40-C	J7-I*	A 134	+28 VDC IMU BUS A	20	324
J40-C	J27-Y	A1178	+28 VDC IMU BUS A	20	324
J40-D	TB5-4	A 617	+28 VDC STBY BUS A	16	133
J40-E	TB16-7	A 618	0 VDC IMU	16	7
J40-F	J7-H*	A1173	0 VDC IMU	20	318
J40-F	J27-U*	A1180	0 VDC IMU	20	318
J40-G	J7-GG	A 151	+28 VDC OPTICS BUS A	20	353
J40-G	J30-H	A1184	+28 VDC OPTICS BUS A	20	353
J40-H			SPARE CONTACT		
J40-I	TB2-8	A 619	+28 VDC IMU BUS A	12	130
J40-J	TB2-7	A 620	+28 VDC IMU BUS A	12	130
J40-K	TB3-8	A 621	+28 VDC OPTICS BUS A	14	1

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J40	31 PIN CONNECTOR MS 3102A36-9S (1896854-090)				
J40-L	TB3-7	A 622	+28 VDC OPTICS BUS A	14	1
J40-M	TB4-8	A 623	+28 VDC AGC BUS A	14	132
J40-N	TB4-7	A 624	+28 VDC AGC BUS A	14	132
J40-O			SPARE CONTACT		
J40-P			SPARE CONTACT		
J40-R			SPARE CONTACT		
J40-S	TB16-8	A 625	0 VDC IMU	12	7
J40-T	TB16-10	A 626	0 VDC IMU	12	7
J40-U	TB14-10	A 627	0 VDC OPTICS	12	7
J40-V	TB10-4	A 628	0 VDC AGC	12	7
J40-W			SPARE CONTACT		
J40-X	TB15-15	A1106	SHIELD GROUND	12	3
J40-Y			SPARE CONTACT		
J40-Z			SPARE CONTACT		
J40-A*	J7-H*	A 133	+28 VDC AGC BUS A	20	319
J40-A*	J27-V*	A1181	+28 VDC AGC BUS A	20	319
J40-B*	J7-P*	A1175	0 VDC OPTICS	20	354
J40-B*	J30-J	A1186	0 VDC OPTICS	20	354
J40-C*	E62B	A 616	CABLE W55 SHIELD GROUND	20	3
J40-D*	TB17-9C	A 630R	AGE VIEWER AND LAMP POWER 400 CPS HI	20	135
J40-E*	TB17-10C	A 630L	AGE VIEWER AND LAMP POWER 400 CPS LO	20	136
J40-F*	J7-N*	A1174	0 VDC AGC	20	323
J40-F*	J27-X*	A1183	0 VDC AGC	20	323
J41	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J41-A			SPARE CONTACT		
J41-B	J11-V	A 258R	800 CPS 28 V 1 PCT HI (OPTICS)	24	94
J41-C	J11-W	A 258L	800 CPS 28 V 1 PCT LO (OPTICS)	24	96
J41-D	J11-T	A 257R	800 CPS 28 V 5 PCT L-90 DEG OPTICS HI	24	91

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J41	61 PIN CONNECTOR MS 3127E24-61S (1897056-610)				
J41-E	J11-U	A 257L	800 CPS 28 V 5 PCT L-90 DEG OPTICS LO	24	92
J41-F	J11-R	A 256R	25.6 KC OPTICS HI	24	87
J41-G	J11-S	A 256L	25.6 KC OPTICS LO	24	89
J41-H	E63B	A 644	CABLE W56 SHIELD GROUND	20	3
J41-J			SPARE CONTACT		
J41-K			SPARE CONTACT		
J41-L			SPARE CONTACT		
J41-M			SPARE CONTACT		
J41-N	TB7-13F	A 645	OSS INTERLOCK OUT	24	355
J41-P	K20-5	A 646	COSECANT RELAY COMMAND (TO PSA)	24	470
J41-R	K20-3	A 647	ZERO OPTICS RELAY COMMAND (TO PSA)	24	471
J41-S	J23-U	A 339Y	WIRED SPARE	24	209
J41-T	J23-T	A 339L	WIRED SPARE	24	208
J41-U	J23-S	A 339R	WIRED SPARE	24	207
J41-V	J23-E*	A 343R	WIRED SPARE	22	191
J41-W	J23-F*	A 343L	WIRED SPARE	22	193
J41-X	J23-I*	A 344L	WIRED SPARE	24	197
J41-Y	J23-G*	A 344R	WIRED SPARE	24	195
J41-Z	J23-H*	A 344Y	WIRED SPARE	24	196
J41-A*			SPARE CONTACT		
J41-B*			SPARE CONTACT		
J41-C*	TB7-3C	A 648R	SHAFT CDU 1/2X SIN HI	24	199
J41-D*	TB7-4C	A 648L	SHAFT CDU 1/2X SIN LO	24	201
J41-E*	J37-J*	A 578L	SHAFT CDU 1X SIN LO	24	446
J41-F*	J37-I*	A 578R	SHAFT CDU 1X SIN HI	24	445
J41-G*	J37-M*	A 579R	SHAFT CDU 1X COS HI	24	448
J41-H*	J37-K*	A 579L	SHAFT CDU 1X COS LO	24	447
J41-I*	TB13-5D	A 649L	SHAFT CDU 1/2X COS HI	24	204
J41-J*	TB13-4D	A 649R	SHAFT CDU 1/2X COS LO	24	202
J41-K*	J23-N	A 337R	WIRED SPARE	24	203
J41-M*	J23-P	A 337L	WIRED SPARE	24	205
J41-N*	TB7-5C	A 650R	TRUNNION CDU 1/4X COS HI	24	224

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				
J43-J*	K20-14	A 675R	800 CPS 1 PERCENT OPTICS HI	22	198
J43-K*	K20-8	A 675L	800 CPS 1 PERCENT OPTICS LO	22	200
J43-P*	J2-V*	A 35W	IMU TEMP ALARM AMP PIN 5 (27 VDC LO DURING G AND N IN)	24	125
J43-N*	J2-W*	A 36W	IMU TEMP ALARM AMP PIN 15 (27 VDC LO IN EMER MODE)	24	126
J43-P*	J2-X*	A 37W	EMERG HTR CONT. MODE LO (EMER MODE COMMAND LO G AND N)	24	127
J43-Q*	J2-Q*	A 30W	IMU HTR CURR AMP PIN 5 (27 VDC DURING G AND N IN)	24	120
J43-R*	J42-A*	A 655R	WIRED SPARE	24	475
J43-S*	J42-B*	A 655L	WIRED SPARE	24	476
J43-T*	J42-C*	A 656R	WIRED SPARE	24	477
J43-U*	J42-D*	A 656L	WIRED SPARE	24	479
J43-V*	P6-A	A 676	ZERO OPTICS FROM COMPUTER	20	500
J43-W*	J2-U*	A 34	0 VDC IMU (27 VDC LO DURING G AND N EMER MODE)	20	124
J43-X*	J4-X*	A 77R	ROLL ATT IMP CONTR OUTPUT RT	24	467
J43-Y*	J4-Y*	A 77L	ROLL ATT IMP CONTR OUTPUT LFT	24	468
J43-Z*	J4-Z*	A 77Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	469
J43-AA			SPARE CONTACT		
J43-BB			SPARE CONTACT		
J43-CC	J4-FF	A 79R	YAW ATT IMP CONTR OUTPUT RT	24	463
J43-DD	J4-EE	A 79L	YAW ATT IMP CONTR OUTPUT LEFT	24	462
J43-EE	J4-GG	A 79Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	464
J43-FF	J4-BB	A 78R	PITCH ATT IMP CONTR OUTPUT UP	24	459
J43-GG	J4-CC	A 78L	PITCH ATT IMP CONTR OUTPUT DN	24	460
J43-HH	J4-DD	A 78Y	+28 VDC FROM NAA (IMPULSE CONTROL)	24	461
J43-JJ			SPARE CONTACT		
J43-KK			SPARE CONTACT		
J43-LL			SPARE CONTACT		
J43-MM			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J43	61 PIN CONNECTOR MS 3127E24-61PX (1897055-612)				
J43-NN			SPARE CONTACT		
J43-PP			SPARE CONTACT		
	J44 55 PIN CONNECTOR MS 3127E22-55SW (1897054-551)				
J44-A			SPARE CONTACT		
J44-B	TB17-8C	A 677	CONDITION LAMP TEST 28 VDC	24	315
J44-C	K30-14	A 678W	AT RESOLVED TRACKER HI (G AND N)	24	431
J44-D	K19-14	A 679R	AS RESOLVED TRACKER HI (G AND N)	24	427
J44-E	K19-11	A 679L	AS RESOLVED TRACKER LO (G AND N)	24	428
J44-F	K19-8	A 680R	AS DIRECT CONTROL HI (G AND N)	24	425
J44-G	K19-5	A 680L	AS DIRECT CONTROL LO (G AND N)	24	426
J44-H	K30-8	A 681R	AT DIRECT CONTROL HI (G AND N)	24	429
J44-J	K30-5	A 681L	AT DIRECT CONTROL LO (G AND N)	24	430
J44-K	K20-7	A 682	COSECANT RELAY COMMAND (FROM GNIC)	24	470
J44-L			SPARE CONTACT		
J44-M			SPARE CONTACT		
J44-N			SPARE CONTACT		
J44-P			SPARE CONTACT		
J44-R	P6-B*	A1154	SPACECRAFT ZERO VDC	20	511
J44-S	P2-C	A 686	ATTITUDE DISABLE SIGNAL (28 VDC TO NAA)	24	513
J44-T	J41-U*	A 651	WIRED SPARE	24	472
J44-U	P2-B	A 687	SXT POWER TO COMPUTER	24	515
J44-V	J24-D	A 350W	800 CPS 28 V 5 PERCENT MI OPTICS SWITCHED	20	222
J44-W	J41-V*	A 652	ZERO DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	473
J44-X	J41-W*	A 653	25 DEG TRUNN TELESCOPE OFFSET RELAY CONTROL	24	474
J44-Y	P6-E	A 689	M AND DV SLEW CONTROL	24	516
J44-Z	P2-P	A 690	STEP UP C	24	517
J44-A*	E66B	A 691	CABLE W58 SHIELD GROUND	20	3
J44-B*	P2-D	A 692	26 VOLTS 400 CPS SLEW	24	503

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J44	55 PIN CONNECTOR MS 3127E22-55SW (1897054-551)				
J44-C*	P2-X	A 693	STEP DOWN C	24	504
J44-D*	P2-S	A 694	26 VOLTS 400 CPS MOTOR EXCITATION	20	505
J44-E*	P2-F	A 695	28 VDC HI	20	507
J44-F*	J25-D	A 377W	IRIG ZERO RESISTANCE	24	249
J44-G*	J25-E	A 378W	ACCEL ZERO RESISTANCE	24	251
J44-H*	J2-T*	A 33W	ACCEL IND SENSOR HI	24	123
J44-I*	J25-F	A 379W	ACCEL GAIN RESISTANCE	24	253
J44-J*	J26-W	A 402W	IRIG TEMP GAIN SWITCH N.C.	24	298
J44-K*	J25-G	A 380W	IRIG GAIN RESISTANCE	24	255
J44-M*	P2-L	A 696	6 VOLTS 400 CPS (TO M AND DV)	20	508
J44-N*	P2-A*	A 697	MARK BUTTON N.O. TO COMPUTER	24	509
J44-P*	P2-Z	A 698	MARK BUTTON N.C. TO COMPUTER	24	510
J44-Q*			SPARE CONTACT		
J44-R*	P2-N	A 699	M AND DV INTENSITY HI	24	512
J44-S*	P2-M	A 700	M AND DV INTENSITY LO	24	514
J44-T*	J2-N*	A 28W	IMU TEMP CONT K2 PIN 5 (AUTO OVRD, PROP AND BACKUP MODE CMND HI)	24	118
J44-U*	J2-P*	A 29W	IMU TEMP CONT AMP PIN 5 (PROP MODE CMND HI)	24	119
J44-V*	J2-Y*	A 38W	IMU TEMP CONT K1 PIN 3 (AUTO OVRD AND EMER MODE COMMAND HI)	24	128
J44-W*	J2-Z*	A 39W	IMU TEMP CONT K2 PIN 6 (AUTO OVRD AND EMER MODE CMND I) G AND N)	24	129
J44-X*	J2-AA	A 40W	IMU TEMP ALARM AMP PIN 14 (27 VDC HI DURING G AND N IN)	24	104
J44-Y*	J2-BB	A 41W	IMU TEMP ALARM BIAS RES (AUTO OVRD AND PROP MODE CMND LO)	24	106
J44-Z*			SPARE CONTACT		
J44-AA	K27-1	A 701W	TRUNNION DEAD ZONE IN	24	11
J44-BB	K28-1	A 702W	SHAFT DEAD ZONE IN	24	10
J44-CC	K20-1	A 703	ZERO OPTICS RELAY COMMAND (FROM GNIC)	20	471
J44-DD	P2-A	A 704	ZERO OPTICS TO COMPUTER	20	506
J44-EE			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) J44	55 PIN CONNECTOR MS 3127E22-55SW (1897054-551)				
J44-FF			SPARE CONTACT		
J44-GG			SPARE CONTACT		
J44-HH			SPARE CONTACT		
	J45 55 PIN CONNECTOR MS 3127E22-55PW (1897053-551)				
J45-A			SPARE CONTACT		
J45-B	E67B	A 705	CABLE W54 SHIELD GROUND	20	3
J45-C			SPARE CONTACT		
J45-D			SPARE CONTACT		
J45-E			SPARE CONTACT		
J45-F			SPARE CONTACT		
J45-G			SPARE CONTACT		
J45-H			SPARE CONTACT		
J45-J			SPARE CONTACT		
J45-K			SPARE CONTACT		
J45-L			SPARE CONTACT		
J45-M			SPARE CONTACT		
J45-N			SPARE CONTACT		
J45-P			SPARE CONTACT		
J45-R			SPARE CONTACT		
J45-S			SPARE CONTACT		
J45-T			SPARE CONTACT		
J45-U			SPARE CONTACT		
J45-V			SPARE CONTACT		
J45-W			SPARE CONTACT		
J45-X			SPARE CONTACT		
J45-Y			SPARE CONTACT		
J45-Z			SPARE CONTACT		
J45-A*			SPARE CONTACT		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K3	RELAY (1015914-001)				
K3-4	K3-5	AA 3	ISS STANDBY ON CONTROL	20	527
K3-5	TB1-6	A 736	ISS STANDBY ON CONTROL	20	527
K3-5	K3-4	AA 3	ISS STANDBY ON CONTROL	20	527
K3-6	J7-CC	A 147	ISS STANDBY ON IND	24	526
K3-7			SPARE N.C. CONTACT		527
K3-8	K4-9	A1114	OPTICS POWER 28 VDC RETURN	20	495
K3-9	E87B	A 658	IMU POWER 28 VDC RETURN (0 VDC)	20	7
K3-10	J43-F	A1113	IMU POWER 28 VDC RETURN (0 VDC)	20	495
K3-11	TB6-7E	A 737	RELAY AND LAMP POWER LO	20	355
K3-12			SPARE WIPER CONTACT		
K3-13			SPARE N.O. CONTACT		
K3-14			SPARE N.C. CONTACT		
K4	RELAY (1015914-001)				
K4-1			SPARE N.C. CONTACT		524
K4-2	E15	A 738	OPTICS 28 VDC HI	16	1
K4-3	XF3-1	A 740	AGE 28 VDC VARIABLE POWER HI	16	524
K4-4	J7-W•	A 141	27 VDC HI OPTICS	24	532
K4-4	K4-5	AA 4	OPTICS POWER ON CONTROL	24	532
K4-5	TB1-8	A 741	OPTICS POWER ON CONTROL	24	532
K4-5	K4-4	AA 4	OPTICS POWER ON CONTROL	24	532
K4-6	J7-V•	A 140	OPTICS POWER ON LAMP	24	523
K4-6	J47-F	A1166	AGC COMMON	20	523
K4-7			SPARE N.C. CONTACT		532
K4-8			SPARE N.C. CONTACT		7
K4-9	K3-8	A1114	OPTICS POWER 28 VDC RETURN	20	495
K4-10	TB14-14	A1115	OPTICS POWER 28 VDC RETURN	20	7
K4-11	TB6-8A	A 742	RELAY AND LAMP POWER LO	20	355
K4-12			SPARE WIPER CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K4	RELAY (1015914-001)				
K4-13			SPARE N.O. CONTACT		
K4-14			SPARE N.C. CONTACT		
K5	RELAY (1015914-001)				
K5-1			SPARE N.C. CONTACT		524
K5-2	K6-12	A 743	28 VDC AGE VARIABLE POWER HI	16	132
K5-3	XF4-1	A 744	AGE 28 VDC VARIABLE POWER HI	16	524
K5-4	J7-S•	A 138	27 VDC HI AGC	24	531
K5-4	K5-5	AA 5	AGC POWER ON CONTROL	24	531
K5-5	TB1-10	A 745	AGC POWER ON CONTROL	24	531
K5-5	K5-4	AA 5	AGC POWER ON CONTROL	24	531
K5-6	J7-R•	A 137	AGC POWER ON LAMP	24	530
K5-7			SPARE N.C. CONTACT		531
K5-8			SPARE N.C. CONTACT		
K5-9			SPARE N.O. CONTACT		
K5-10			SPARE WIPER CONTACT		
K5-11	TB6-8B	A 746	RELAY AND LAMP POWER LO	20	355
K5-12			SPARE WIPER CONTACT		
K5-13			SPARE N.O. CONTACT		
K5-14			SPARE N.C. CONTACT		
K6	RELAY (1015914-001)				
K6-1	J7-X•	A 142	AGE POWER TRANSFER A	20	525
K6-2	K6-4	AA 6	AGE POWER TRANSFER LINE B	20	533
K6-3	TB7-12E	A 747	27 VDC RELAY AND LAMP POWER HI	20	525
K6-4	K1-X01	A 729	AGE POWER TRANSFER LINE B	20	533

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE - NONE	REV LTR C	SHEET 120 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K6	RELAY (1015914-001)				
K6-4	TB1-20	A 748	AGE POWER TRANSFER LINE B	20	533
K6-4	K6-2	AA 6	AGE POWER TRANSFER LINE B	20	533
K6-5	K3-2	A 734	28 VDC STANDBY POWER LINE A - LINE B SELECT	16	133
K6-6	TB5-1	A 749	28 VDC STANDBY BUS B	16	134
K6-7	TB5-6	A 750	28 VDC STANDBY BUS A	16	133
K6-8	TB3-6	A 751	OPTICS POWER LINE A HI	16	1
K6-9	TB3-1	A 752	OPTICS POWER LINE B HI	16	351
K6-10	E15	A1048	OPTICS 28 VDC HI	16	1
K6-11	K1-X02	A 730	AGE POWER TRANSFER LO	20	534
K6-11	TB1-19	A 753	AGE POWER TRANSFER LO	20	534
K6-12	K5-2	A 743	28 VDC AGE VARIABLE POWER HI	16	132
K6-13	TB4-1	A 754	28 VDC AGC LINE B POWER HI	16	137
K6-14	TB4-6	A 755	28 VDC AGC LINE A POWER HI	16	132
K7	RELAY (1015837-001)				
K7-1	P2-D•	A 960	K 7 CONTROL 28 VDC HI	24	607
K7-2	TB7-20F	A 756	27 VDC RELAY AND LAMP POWER LO	20	355
K7-3	J8-V•	A 176	CONTINUITY IND	24	551
K7-4	K25-4	A 757	CONT TEST ENABLE (28 VDC)	20	550
K7-5	J8-U•	A 175	CONTINUITY TEST PROCEED LIGHT	24	550
K7-6			SPARE N.O. CONTACT		
K7-7	P1-A	A 950	PROCEED VOLTAGE	20	555
K7-8	J9-JJ	A 226	CONTINUITY TEST PROCEED VOLTAGE	24	555
K7-9			SPARE N.O. CONTACT		
K7-10			SPARE WIPER CONTACT		
K7-11			SPARE N.C. CONTACT		
K7-12			SPARE N.O. CONTACT		
K7-13			SPARE WIPER CONTACT		
K7-14			SPARE N.C. CONTACT		

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SCALE - NONE	REV LTR C	SHEET 121 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K7	RELAY (1015837-001)				
K7-15			SPARE N.O. CONTACT		
K7-16			SPARE WIPER CONTACT		
K7-17			SPARE N.C. CONTACT		
K7-18			SPARE N.O. CONTACT		
K7-19			SPARE WIPER CONTACT		
K7-20			SPARE N.C. CONTACT		
K8	RELAY (1015914-001)				
K8-1	J25-D•	A 390	28 VDC FOR M AND DV	20	250
K8-1	J34-Y	A1167	+28 VDC MDV	20	250
K8-2	P4-D•	A 962	28 VDC HI, M AND DV	24	609
K8-3	J43-C•	A 670	M AND DV AND INTEGRAL LIGHTING PWR 28 VDC HI	20	250
K8-4	TB1-2	A 758	CONT TEST ENABLE (28 VDC)	20	550
K8-4	P10-D•	A 967	CONT TEST ENABLE (28 VDC)	24	550
K8-5			SPARE WIPER CONTACT		
K8-6			SPARE N.O. CONTACT		
K8-7			SPARE N.C. CONTACT		
K8-8	TB6-6B	A 760	5.5 V AT 6.75 AMP 400 CPS LO	24	7
K8-8	TB17-12C	A1155W	5.5 V AT 6.75 AMP 400 CPS LO	20	7
K8-9			SPARE N.O. CONTACT		
K8-10	J43-U	A1133W	6 VOLT 400 CPS LO	20	7
K8-11	TB6-7C	A 762	RELAY AND LAMP POWER LO	20	355
K8-12	J43-S	A 662W	6 VOLT 400 CPS LO	22	499
K8-13	P6-N	A 963	6 VOLT 400 CPS HI	24	608
K8-14			SPARE N.C. CONTACT		499

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SCALE - NONE	REV LTR C	SHEET 122 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K47	RELAY (1015837-001)				
K47-10	J25-MM	A 394R	MG CDU MDA OUTPUT HI	22	256
K47-11	J33-JJ	A 517R	MG CDU MDA OUTPUT HI	24	256
K47-12	K47-15	AA 23	MG CDU 1 X ERROR SIGNAL LO	24	591
K47-13	J26-X*	A 413L	MG CDU 1X ERROR SIGNAL LO	24	300
K47-14	TB17-4D	A 866L	MG CDU 1 X ERROR LO	24	300
K47-15	K47-12	AA 23	MG CDU 1 X ERROR SIGNAL HI	24	591
K47-16	J26-W*	A 413R	MG CDU 1X ERROR SIGNAL HI	24	299
K47-17	TB17-3D	A 866R	MG CDU 1 X ERROR HI	24	299
K47-18			SPARE N.O. CONTACT		
K47-19			SPARE WIPER CONTACT		
K47-20			SPARE N.C. CONTACT		
	K48 RELAY (1015837-001)				
K48-1	J9-W*	A 214	ENABLE MG IMU RSVR SIG TO GPC	20	567
K48-2	K49-2	A 868	27 VDC RELAY AND LAMP POWER LO	20	355
K48-2	TB7-17D	A 869	27 VDC RELAY AND LAMP POWER LO	20	355
K48-3	J9-V*	A 213	MG POS SEL IND	20	566
K48-4	K49-15	A 870	K48, K49 INDICATIONS (K311A MECH)	20	593
K48-5			SPARE N.C. CONTACT		593
K48-6	J3-R*	A 52R	COS AMG 1X TO POS (HI)	24	343
K48-7	J4-R*	A 74R	COS AMG 1X S3 (HI)	24	165
K48-7	J5-CC	A 106R	COS AMG 1X S3 (HI)	24	165
K48-7	K63-19	A 871R	MG 1 X RSVR COS (IMU) HI	24	165
K48-8	TB11-11E	A 872R	MG 1 X COS BAI (IMU) HI	24	165
K48-9	J3-S*	A 52L	COS AMG 1X TO POS (LO)	24	344
K48-10	J4-S*	A 74L	COS AMG 1X S1 (LO)	24	168
K48-10	J5-DD	A 106L	COS AMG 1X S1 (LO)	24	168
K48-10	K63-16	A 871L	MG 1 X RSVR COS (IMU) LO	24	168
K48-11	TB11-12E	A 872L	MG 1 X COS BAI (IMU) LO	24	168

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SCALE - NONE	REV LTR C	SHEET 139 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K48	RELAY (1015837-001)				
K48-12	J3-P*	A 51R	SIN AMG 1X TO POS (HI)	24	341
K48-13	J4-P*	A 73R	SIN AMG 1X S4 (HI)	24	170
K48-13	J5-EE	A 107R	SIN AMG 1X S4 (HI)	24	170
K48-13	K63-13	A 873R	MG 1 X RSVR SIN (IMU) HI	24	170
K48-14	TB11-9E	A 874R	MG 1 X SIN BAI (IMU) HI	24	170
K48-15	J3-Q*	A 51L	SIN AMG 1X TO POS (LO)	24	342
K48-16	J4-Q*	A 73L	SIN AMG 1X S2 (LO)	24	172
K48-16	J5-FF	A 107L	SIN AMG 1X S2 (LO)	24	172
K48-16	K63-10	A 873L	MG 1 X RSVR SIN (IMU) LO	24	172
K48-17	TB11-10E	A 874L	MG 1 X SIN BAI (IMU) LO	24	172
K48-18	K49-1	A 867	K49 COIL HI (K311 MECH)	20	592
K48-19	K46-19	A1089	27 VDC RELAY AND LAMP POWER HI	20	525
K48-19	K50-19	A1090	27 VDC RELAY AND LAMP POWER HI	20	525
K48-20			SPARE N.C. CONTACT		
	K49 RELAY (1015837-001)				
K49-1	K48-18	A 867	K49 COIL HI (K311 MECH)	20	592
K49-2	K48-2	A 868	27 VDC RELAY AND LAMP POWER LO	20	355
K49-2	K49-16	AA 24	27 VDC RELAY AND LAMP POWER LO	24	355
K49-3	J3-M*	A 50R	COS AMG 16X TO POS (HI)	24	339
K49-4	J22-S*	A 320R	CDU COS AMG 16X HI	24	28
K49-4	K63-7	A 875R	CDU COS AMG 16 X HI	24	28
K49-5	K63-8	A 876R	MG 16 X COS HI	24	28
K49-6	J3-N*	A 50L	COS AMG 16X TO POS (LO)	24	340
K49-7	J22-T*	A 320L	CDU COS AMG 16X LO	24	29
K49-7	K63-6	A 875L	CDU COS AMG 16 X LO	24	29
K49-8	K63-5	A 876L	MG 16 X COS LO	24	29
K49-9	J3-K*	A 49R	SIN AMG 16X TO POS (LO)	24	338
K49-10	J22-U*	A 321R	CDU SIN AMG 16X LO	24	51

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K49	RELAY (1015837-001)				
K49-10	K64-13	A 877R	CDU SIN AMG 16 X LO	24	51
K49-11	K64-14	A 878R	MG 16 X SIN LO	24	51
K49-12	J3-J*	A 49L	SIN AMG 16X TO POS (HI)	24	337
K49-13	J22-V*	A 321L	CDU SIN AMG 16X HI	24	49
K49-13	K64-10	A 877L	CDU SIN AMG 16 X HI	24	49
K49-14	K64-11	A 878L	MG 16 X SIN HI	24	49
K49-15	K48-4	A 870	K48, K49 INDICATIONS (K311A MECH)	20	593
K49-16	K49-2	AA 24	27 VDC RELAY AND LAMP POWER LO	24	355
K49-17			SPARE N.C. CONTACT		
K49-18			SPARE N.O. CONTACT		
K49-19			SPARE WIPER CONTACT		
K49-20			SPARE N.C. CONTACT		
	K50 RELAY (1015837-001)				
K50-1	J9-X*	A 215	OG CDU LOOP INHIBIT	20	568
K50-2	K51-2	A 880	27 VDC RELAY AND LAMP POWER LO	20	355
K50-3	K50-6	AA 25	OG CDU MDA TACH - SLEW - INPUT, COM	24	595
K50-4	J26-NN	A 419Y	OG CDU MDA SLEW SIGNAL	24	288
K50-5	J32-FF	A 495Y	OG CDU MDA SLEW	24	288
K50-6	K50-3	AA 25	OG CDU MDA TACH - SLEW - INPUT COM	24	595
K50-6	K50-9	AA 26	OG CDU MDA TACH - SLEW - INPUT COM	24	595
K50-7	J26-MM	A 419L	OG CDU MDA INPUT RETURN	24	41
K50-8	J10-H	A 234L	OG CDU MDA INPUT RET	22	41
K50-8	J32-EE	A 495L	OG CDU MDA LO	24	41
K50-9	K50-6	AA 26	OG CDU MGA TACH - SLEW - INPUT COM	24	595
K50-10	J26-LL	A 419R	OG CDU MDA TACH SIGNAL	24	38
K50-11	J10-G	A 234R	OG CDU MDA TACH SIG	22	38
K50-11	J32-GG	A 495R	OG CDU MDA TACH	24	38
K50-12	K50-15	AA 27	OG CDU 1 X ERROR SIGNAL COM	24	594

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SCALE - NONE	REV LTR C	SHEET 141 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K50	RELAY (1015837-001)				
K50-13	J26-HH	A 417L	OG CDU 1X ERROR SIGNAL LO	24	280
K50-14	TB17-6D	A 881L	OG CDU 1 X ERROR SIGNAL LO	24	280
K50-15	K50-12	AA 27	OG CDU 1 X ERROR SIGNAL COM	24	594
K50-16	J26-GG	A 417R	OG CDU 1X ERROR SIGNAL HI	24	278
K50-17	TB17-5D	A 881R	OG CDU 1 X ERROR SIGNAL HI	24	278
K50-18	K51-1	A 879	K51, K67, K68 COILS HI (K372 MECH)	20	417
K50-19	K48-19	A1090	27 VDC RELAY AND LAMP POWER HI	20	525
K50-19	K52-19	A1091	27 VDC RELAY AND LAMP POWER HI	20	525
K50-20			SPARE N.C. CONTACT		
	K51 RELAY (1015837-001)				
K51-1	K50-18	A 879	K51, K67, K68 COILS HI (K372 MECH)	20	417
K51-1	K67-1	A 882	27 VDC RELAY AND LAMP POWER HI	20	417
K51-2	K50-2	A 880	27 VDC RELAY AND LAMP POWER LO	20	355
K51-2	K68-2	A 883	27 VDC RELAY AND LAMP POWER LO	20	355
K51-3			SPARE N.O. CONTACT		
K51-4	J25-NN	A 395L	OG CDU MDA OUTPUT LO	22	266
K51-5	J32-HH	A 496L	OG CDU MDA OUTPUT LO	24	266
K51-6			SPARE N.O. CONTACT		
K51-7	J25-MM	A 395Y	0 VDC IMU C.T.	22	264
K51-7	J32-KK	A 496Y	OG CDU MOTOR C.T. (0 VDC)	24	264
K51-8			SPARE N.C. CONTACT		264
K51-9			SPARE N.O. CONTACT		
K51-10	J25-LL	A 395R	OG CDU MDA OUTPUT HI	22	262
K51-11	J32-JJ	A 496R	OG CDU MDA OUTPUT HI	24	262
K51-12	K51-15	AA 28	OG CDU 1/2 X ERROR SIGNAL COM	24	596
K51-13	J26-KK	A 418L	OG CDU 1/2X ERROR SIGNAL LO	24	56
K51-14	J10-U	A 236L	OG CDU ERROR SIG RET	24	56
K51-14	J32-F*	A 484L	OG 1/2X ERROR LO	24	56

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K56	RELAY (1015837-001)				
K56-4	K54-11	A 901R	MG ERROR SIGNAL HI	24	160
K56-4	K56-11	AA 30	MG ERROR SIGNAL HI	24	160
K56-5			SPARE N.C. CONTACT		
K56-6	E2	A 905L	ISOLATION TRANSFORMER INPUT TERM. 2	24	2
K56-7	K41-7	A 845L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K56-7	K54-14	A 901L	MIDDLE GIMBAL ERROR SIGNAL LO	24	163
K56-8			SPARE N.C. CONTACT		163
K56-9	E3	A 905R	ISOLATION TRANSFORMER INPUT TERM. 1	24	4
K56-10	K41-4	A 845R	MIDDLE GIMBAL ERROR SIGNAL HI	24	160
K56-11	K56-4	AA 30	MG ERROR SIGNAL HI	24	160
K56-12			SPARE N.O. CONTACT		
K56-13			SPARE WIPER CONTACT		
K56-14			SPARE N.C. CONTACT		
K56-15			SPARE N.O. CONTACT		
K56-16			SPARE WIPER CONTACT		
K56-17			SPARE N.C. CONTACT		
K56-18			SPARE N.O. CONTACT		
K56-19			SPARE WIPER CONTACT		
K56-20			SPARE N.C. CONTACT		
K57	RELAY (1015837-001)				
K57-1	J9-P*	A 207	IG CDU TEST COMMAND	20	560
K57-2	TB7-18C	A 907	27 VDC RELAY AND LAMP POWER LO	20	355
K57-2	K58-2	A 908	27 VDC RELAY AND LAMP POWER LO	20	355
K57-3	K61-3	A 909L	IG 16 X SIN HI	24	105
K57-4	J38-U*	A 596L	IG 16X SINE HI	24	52
K57-5	K60-11	A 910L	IG 16 X SIN HI	24	52
K57-6	K61-6	A 909R	IG 16 X SIN LO	24	103
K57-7	J38-T*	A 596R	IG 16X SINE LO	24	53

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K57	RELAY (1015837-001)				
K57-8	K60-14	A 910R	IG 16 X SIN LO	24	53
K57-9	K61-9	A 911L	IG 16 X COS LO	24	110
K57-10	J38-S*	A 595L	IG 16X COSINE LO	24	33
K57-11	K59-5	A 912L	IG 16 X COS LO	24	33
K57-12	K61-12	A 911R	IG 16 X COS HI	24	108
K57-13	J38-R*	A 595R	IG 16X COSINE HI	24	31
K57-14	K59-8	A 912R	IG 16 X COS HI	24	31
K57-15	K58-1	A 906	K58 COIL HI (K306 MECH)	20	599
K57-16	K54-16	A1092	27 VDC RELAY AND LAMP POWER HI	20	525
K57-16	K61-16	A1093	27 VDC RELAY AND LAMP POWER HI	20	525
K57-17			SPARE N.C. CONTACT		
K57-18			SPARE N.O. CONTACT		
K57-19			SPARE WIPER CONTACT		
K57-20			SPARE N.C. CONTACT		
K58	RELAY (1015837-001)				
K58-1	K57-15	A 906	K58 COIL HI (K306 MECH)	20	599
K58-2	K57-2	A 908	27 VDC RELAY AND LAMP POWER LO	20	355
K58-3	K62-3	A 913L	IG 1 X SIN HI	24	111
K58-4	J38-N*	A 593L	IG 1X SINE HI	24	143
K58-5	K59-14	A 914R	IG 1 X BAI SIN HI (IMU)	24	143
K58-6	K62-6	A 913R	IG 1 X SIN LO	24	112
K58-7	J38-M*	A 593R	IG 1X SINE LO	24	145
K58-8	K59-11	A 914L	IG 1 X BAI SIN LO (IMU)	24	145
K58-9	K62-9	A 915L	IG 1 X COS LO	24	116
K58-10	J38-K*	A 592L	IG 1X COSINE LO	24	141
K58-11	K59-17	A 916L	IG 1 X COS LO (BAI)	24	141
K58-12	K62-12	A 915R	IG 1X COS HI	24	114
K58-13	J38-J*	A 592R	IG 1X COSINE HI	24	139

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K58	RELAY (1015837-001)				
K58-14	K59-20	A 916R	IG 1X COS HI (BAI)	24	139
K58-15			SPARE N.O. CONTACT		
K58-16			SPARE WIPER CONTACT		
K58-17			SPARE N.C. CONTACT		
K58-18			SPARE N.O. CONTACT		
K58-19			SPARE WIPER CONTACT		
K58-20			SPARE N.C. CONTACT		
K59	RELAY (1015837-001)				
K59-1	K43-1	A 848	K43, K59, K60 COILS, TEST (K370 MECH)	20	404
K59-1	K60-1	A 917	K43, K59, K60 COILS, TEST (K370 MECH)	20	404
K59-2	K43-2	A 849	27 VDC RELAY AND LAMP POWER LO	20	355
K59-2	K60-2	A 918	27 VDC RELAY AND LAMP POWER LO	20	355
K59-3			SPARE N.O. CONTACT		
K59-4	J22-G*	A 315L	CDU COS AIG 16X LO	24	33
K59-4	K45-7	A 859L	CDU COS AIG 16 X LO	24	33
K59-5	K45-8	A 860L	IG 16 X COS LO	24	33
K59-5	K57-11	A 912L	IG 16 X COS LO	24	33
K59-6			SPARE N.O. CONTACT		
K59-7	J22-F*	A 315R	CDU COS AIG 16X HI	24	31
K59-7	K45-4	A 859R	AIG 16 X COS CDU HI	24	31
K59-8	K45-5	A 860R	IG 16 X COS HI	24	31
K59-8	K57-14	A 912R	IG 16 X COS HI	24	31
K59-9			SPARE N.O. CONTACT		
K59-10	J5-MM	A 110L	SIN AIG 1X RET S2	24	145
K59-10	K44-16	A 857L	IG 1/2 X RSVR SIN LO (IMU)	24	145
K59-11	K58-8	A 914L	IG 1 X BAI SIN LO (IMU)	24	145
K59-11	TB11-18E	A 919L	IG 1 X BAI SIN LO (IMU)	24	145
K59-12			SPARE N.O. CONTACT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K59	RELAY (1015837-001)				
K59-13	J5-LL	A 110R	SIN AIG 1X S4 (HI)	24	143
K59-13	K44-13	A 857R	IG 1/2 X RSVR SIN HI (IMU)	24	143
K59-14	K58-5	A 914R	IG 1 X BAI SIN HI (IMU)	24	143
K59-14	TB11-17E	A 919R	IG 1 X BAI SIN HI (IMU)	24	143
K59-15			SPARE N.O. CONTACT		
K59-16	J5-KK	A 109R	COS AIG 1X RET S1	24	141
K59-16	K44-10	A 855L	IG 1/2 X RSVR LO (IMU)	24	141
K59-17	K58-11	A 916L	IG 1 X COS LO (BAI)	24	141
K59-17	TB11-16E	A 920L	IG 1 X COS LO (BAI)	24	141
K59-18			SPARE N.O. CONTACT		
K59-19	J5-JJ	A 109L	COS AIG 1X S3 (HI)	24	139
K59-19	K44-7	A 855R	IG 1/2 X RSVR COS HI (IMU)	24	139
K59-20	K58-14	A 916R	IG 1 X COS HI (BAI)	24	139
K59-20	TB11-15E	A 920R	IG 1 X COS HI (BAI)	24	139
K60	RELAY (1015837-001)				
K60-1	J34-M*	A 536	FOR GSE USE ONLY	24	404
K60-1	K59-1	A 917	K43, K59, K60 COILS TEST (K370 MECH)	20	404
K60-2	K59-2	A 918	27 VDC RELAY AND LAMP POWER LO	20	355
K60-2	TB7-18D	A 921	27 VDC RELAY AND LAMP POWER LO	20	355
K60-3	K60-6	AA126	IG CDU 16 X ERROR SIGNAL	24	600
K60-4	J26-N*	A 409L	IG CDU 16X ERROR SIGNAL LO	24	287
K60-5	J38-Q*	A 594L	IG 16X ERROR LO	24	287
K60-6	K60-3	AA126	IG CDU 16 X ERROR SIGNAL COM	24	600
K60-7	J26-M*	A 409R	IG CDU 16X ERROR SIGNAL HI	24	285
K60-8	J38-P*	A 594R	IG 16X ERROR HI	24	285
K60-9			SPARE N.O. CONTACT		
K60-10	J22-I*	A 316L	CDU SIN AIG 16X HI	24	52
K60-10	K45-13	A 861L	AIG 16 X SIN CDU HI	24	52

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SCALE-NONE	REV LTR C	SHEET 150 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K64	RELAY (1015837-001)				
K64-10	J10-P*	A 240R	SIN AMG 16X TO CDU	24	49
K64-10	K49-13	A 877L	CDU SIN AMG 16 X HI	24	49
K64-11	K49-14	A 878L	MG 16 X SIN HI	24	49
K64-11	K61-5	A 926L	MG 16 X SIN HI	24	49
K64-12			SPARE N.O. CONTACT		
K64-13	J10-Q*	A 240L	SIN AMG 16X S4	24	51
K64-13	K49-10	A 877R	CDU SIN AMG 16 X LO	24	51
K64-14	K49-11	A 878R	MG 16 X SIN LO	24	51
K64-14	K61-8	A 926R	MG 16 X SIN LO	24	51
K64-15			SPARE N.O. CONTACT		
K64-16			SPARE WIPER CONTACT		
K64-17			SPARE N.C. CONTACT		
K64-18			SPARE N.O. CONTACT		
K64-19			SPARE WIPER CONTACT		
K64-20			SPARE N.C. CONTACT		
	K65	RELAY (1015837-001)			
K65-1	J9-Y	A 193	OG CDU TEST COMMAND	20	569
K65-2	K66-2	A 939	27 VDC RELAY AND LAMP POWER LO	20	355
K65-2	TB7-17E	A 940	27 VDC RELAY AND LAMP POWER LO	20	355
K65-3	J2-B*	A 23L	CARD POINT SIN 16X HI	24	105
K65-3	K61-3	A 925L	IG 16 X SIN HI	24	105
K65-4	J32-U*	A 490L	OG 16X SINE HI	24	45
K65-5	K68-14	A 941L	OG 16 X SIN HI	24	45
K65-6	J2-A*	A 23R	CARD POINT SIN 16X LO	24	103
K65-6	K61-6	A 925R	IG 16 X SIN LO	24	103
K65-7	J32-T*	A 490R	OG 16X SINE LO	24	47
K65-8	K68-11	A 941R	OG 16 X SIN LO	24	47
K65-9	J2-D*	A 24L	CARD POINT COS 16X LO	24	110

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SCALE-NONE	REV LTR C	SHEET 155 OF 245

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K65	RELAY (1015837-001)				
K65-9	K61-9	A 927L	CARD POINT COS 16 X LO	24	110
K65-10	J32-S*	A 489L	OG 16X COSINE LO	24	57
K65-11	K67-5	A 942L	OG COS 16 X LO	24	57
K65-12	J2-C*	A 24R	CARD POINT COS 16X HI	24	108
K65-12	K61-12	A 927R	IG 16 X COS HI	24	108
K65-13	J32-R*	A 489R	OG 16X COSINE HI	24	55
K65-14	K67-8	A 942R	OG 16 X COS HI	24	55
K65-15	K66-1	A 938	K66 COIL HI (K308 MECH)	20	603
K65-16	K61-16	A109%	27 VDC RELAY AND LAMP POWER HI	20	525
K65-17			SPARE N.C. CONTACT		
K65-18			SPARE N.O. CONTACT		
K65-19			SPARE WIPER CONTACT		
K65-20			SPARE N.C. CONTACT		
	K66	RELAY (1015837-001)			
K66-1	K65-15	A 938	K66 COIL HI (K308 MECH)	20	603
K66-2	K65-2	A 939	27 VDC RELAY AND LAMP POWER LO	20	355
K66-3	J2-E*	A 25L	CARD POINT SIN 1X HI	24	111
K66-3	K62-3	A 929L	IG 1 X SIN HI	24	111
K66-4	J32-N*	A 487L	OG 1X SINE HI	24	156
K66-5	K67-11	A 943L	CDU SIN AOG 1 X HI	24	156
K66-6	J2-F*	A 25R	CARD POINT SIN 1X LO	24	112
K66-6	K62-6	A 929R	IG 1 X SIN LO	24	112
K66-7	J32-M*	A 487R	OG 1X SINE LO	24	151
K66-8	K67-14	A 943R	CDU SIN AOG 1 X LO	24	151
K66-9	J2-H*	A 26L	CARD POINT COS 1X LO	24	116
K66-9	K62-9	A 931L	IG 1 X COS LO	24	116
K66-10	J32-K*	A 486L	OG 1X COSINE LO	24	184
K66-11	K67-17	A 944L	CDU COS AOG 1 X LO	24	184

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K66	RELAY (1015837-001)				
K66-12	J2-G*	A 26R	CARD POINT COS 1X HI	24	114
K66-12	K62-12	A 931R	MG 1 X COS HI	24	114
K66-13	J32-J*	A 486R	OG 1X COSINE HI	24	180
K66-14	K67-20	A 944R	CDU COS AOG 1 X HI	24	180
K66-15			SPARE N.O. CONTACT		
K66-16			SPARE WIPER CONTACT		
K66-17			SPARE N.C. CONTACT		
K66-18			SPARE N.O. CONTACT		
K66-19			SPARE WIPER CONTACT		
K66-20			SPARE N.C. CONTACT		
	K67	RELAY (1015837-001)			
K67-1	K51-1	A 882	27 VDC RELAY AND LAMP POWER HI	20	417
K67-1	K68-1	A 945	27 VDC RELAY AND LAMP POWER HI	20	417
K67-2	K68-2	A 946	27 VDC RELAY AND LAMP POWER LO	20	355
K67-2	TB7-16C	A 947	27 VDC RELAY AND LAMP POWER LO	20	355
K67-3			SPARE N.O. CONTACT		
K67-4	J10-U*	A 242L	COS AOG 16X TO CDU	24	57
K67-4	K53-7	A 894L	CDU COS AOG 16 X LO	24	57
K67-5	K53-8	A 895L	OG 16 X COS LO	24	57
K67-5	K65-11	A 942L	OG 16 X COS LO	24	57
K67-6			SPARE N.O. CONTACT		
K67-7	J10-T*	A 242R	COS AOG 16X S3 (HI)	24	55
K67-7	K53-4	A 894R	CDU COS AOG 16 X HI	24	55
K67-8	K53-5	A 895R	OG 16 X COS HI	24	55
K67-8	K65-14	A 942R	OG 16 X COS HI	24	55
K67-9			SPARE N.O. CONTACT		
K67-10	J22-K	A 311L	CDU SIN AOG 1X HI	24	156
K67-10	TB11-8D	A 948	CDU SIN AOG 1 X HI	24	156

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SCALE-NONE	REV LTR C	SHEET 157 OF 245

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) K67	RELAY (1015837-001)				
K67-11	K52-17	A 893L	CDU SIN AOG 1 X HI	24	156
K67-11	K66-5	A 943L	CDU SIN AOG 1 X HI	24	156
K67-12			SPARE N.O. CONTACT		
K67-13	J22-H	A 311R	CDU SIN AOG 1X LO	24	151
K67-13	K52-13	A 891	CDU SIN AOG 1 X LO	24	151
K67-14	K52-14	A 893R	CDU SIN AOG 1 X LO	24	151
K67-14	K66-8	A 943R	CDU SIN AOG 1 X LO	24	151
K67-15			SPARE N.O. CONTACT		
K67-16	J22-Z*	A 323L	CDU COS AOG 1X LO	24	184
K67-16	TB11-14D	A 949	CDU COS AOG 1 X LO	24	184
K67-17	K52-11	A 890L	CDU COS AOG 1 X LO	24	184
K67-17	K66-11	A 944L	CDU COS AOG 1 X LO	24	184
K67-18			SPARE N.O. CONTACT		
K67-19	J22-X*	A 323R	CDU COS AOG 1X HI	24	180
K67-19	K52-7	A 889	CDU COS AOG 1 X HI	24	180
K67-20	K52-8	A 890R	CDU COS AOG 1 X HI	24	180
K67-20	K66-14	A 944R	CDU COS AOG 1 X HI	24	180
	K68	RELAY (1015837-001)			
K68-1	J34-Z	A 528	FOR GSE USE ONLY	20	417
K68-1	K67-1	A 945	27 VDC RELAY AND LAMP POWER HI	20	417
K68-2	K51-2	A 883	27 VDC RELAY AND LAMP POWER LO	20	355
K68-2	K67-2	A 946	27 VDC RELAY AND LAMP POWER LO	20	355
K68-3	K68-6	AA 32	OG CDU 16 X ERROR SIGNAL COM	24	606
K68-4	J26-FF	A 416L	OG CDU 16X ERROR SIGNAL LO	24	276
K68-5	J32-Q*	A 488L	OG 16X ERROR LO	24	276
K68-6	K68-3	AA 32	OG CDU 16 X ERROR SIGNAL COM	24	606
K68-7	J26-EE	A 416R	OG CDU 16X ERROR SIGNAL HI	24	275
K68-8	J32-P*	A 488R	OG 16X ERROR HI	24	275

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) P11	27 PIN CONNECTOR (1016059-108) GREEN KEYED X				
P11-J	P11-V	AA139	STEPPER UNITS FIVE	24	540
P11-J	P10-B*	A1071	STEPPER UNITS FIVE	24	540
P11-K	P11-W	AA140	STEPPER UNITS SIX	24	541
P11-K	P10-C*	A1072	STEPPER UNITS SIX	24	541
P11-L	P11-A	AA131	STEPPER UNITS SEVEN	24	542
P11-L	P11-X	AA141	STEPPER UNITS SEVEN	24	542
P11-M	P11-B	AA132	STEPPER UNITS EIGHT	24	543
P11-M	P11-Y	AA142	STEPPER UNITS EIGHT	24	543
P11-N	P11-C	AA133	STEPPER UNITS NINE	24	544
P11-N	P11-Z	AA143	STEPPER UNITS NINE	24	544
P11-P	P11-D	AA134	STEPPER UNITS ZERO	24	535
P11-P	P11-A*	AA144	STEPPER UNITS ZERO	24	535
P11-R	P11-E	AA135	STEPPER UNITS ONE	24	536
P11-R	P11-B*	AA145	STEPPER UNITS ONE	24	536
P11-S	P11-F	AA136	STEPPER UNITS TWO	24	537
P11-T	P11-G	AA137	STEPPER UNITS THREE	24	538
P11-U	P11-H	AA138	STEPPER UNITS FOUR	24	539
P11-V	P11-J	AA139	STEPPER UNITS FIVE	24	540
P11-W	P11-K	AA140	STEPPER UNITS SIX	24	541
P11-X	P11-L	AA141	STEPPER UNITS SEVEN	24	542
P11-Y	P11-M	AA142	STEPPER UNITS EIGHT	24	543
P11-Z	P11-N	AA143	STEPPER UNITS NINE	24	544
P11-A*	P11-P	AA144	STEPPER UNITS ZERO	24	535
P11-B*	P11-R	AA145	STEPPER UNITS ONE	24	536
P11-C*	J8-A*	A 169	STEPPER UNITS ZERO	24	535
P11-C*	P10-K	AA106	STEPPER UNITS ZERO	24	535
P11-D*			SPARE CONTACT		
	R1	RESISTOR RE75G3R01 MIL-R-18546/1 (1896982-143)			

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) R1	RESISTOR RE75G3R01 MIL-R-18546/1 (1896982-143)				
R1-1	J32-D	A1129	6 VOLT 400 CPS ISS LOAD	20	381
R1-2	TB6-2C	A1135	6 VOLT 400 CPS HI	20	206
R2	RESISTOR RE75G2R00 MIL-R-18546/1 (1896982-126)				
R2-1	J47-K	A1194	400 CPS LO BUS	20	360
R2-1	J31-D	A1127	6 VOLT 400 CPS OSS LOAD	20	360
R2-2	TB6-3E	A1136	6 VOLT 400 CPS HI	20	206
SHIELD GROUND					
SHLD A7	E20B	A 7A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A10	E20B	A 10A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A13	E20B	A 13A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A14	E20B	A 14A	SHIELD GROUND (J1 CONNECTOR END)	22	3
SHLD A21	E21B	A 21A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A23	E21B	A 23A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A24	E21B	A 24A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A25	E21B	A 25A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A26	E21B	A 26A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A28	E22B	A 28A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A29	E22B	A 29A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A30	E22B	A 30A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A31	E22B	A 31A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A32	E22B	A 32A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A33	E22B	A 33A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A35	E22B	A 35A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A36	E23B	A 36A	SHIELD GROUND (J2 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A37	E23B	A 37A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A38	E23B	A 38A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A39	E23B	A 39A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A40	E23B	A 40A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A41	E23B	A 41A	SHIELD GROUND (J2 CONNECTOR END)	22	3
SHLD A45	E24B	A 45A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A46	E24B	A 46A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A47	E24B	A 47A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A48	E24B	A 48A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A49	E24B	A 49A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A50	E24B	A 50A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A51	E24B	A 51A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A52	E24B	A 52A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A53	E25B	A 53A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A54	E25B	A 54A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A55	E25B	A 55A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A56	E25B	A 56A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A59	E25B	A 59A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A60	E25B	A 60A	SHIELD GROUND (J3 CONNECTOR END)	22	3
SHLD A62	E26B	A 62A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A63	E26B	A 63A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A64	E26B	A 64A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A65	E26B	A 65A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A66	E26B	A 66A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A70	E26B	A 70A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A71	E26B	A 71A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A72	E26B	A 72A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A73	E27B	A 73A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A74	E27B	A 74A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A75	E27B	A 75A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A76	E27B	A 76A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A77	E27B	A 77A	SHIELD GROUND (J4 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A78	E27B	A 78A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A79	E27B	A 79A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A80	E27B	A 80A	SHIELD GROUND (J4 CONNECTOR END)	22	3
SHLD A83	E57B	A 83A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A85	E28B	A 85A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A86	E28B	A 86A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A89	E28B	A 89A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A90	E28B	A 90A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A91	E28B	A 91A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A92	E28B	A 92A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A93	E28B	A 93A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A94	E28B	A 94A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A95	E28B	A 95A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A96	E29B	A 96A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A97	E29B	A 97A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A98	E29B	A 98A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A99	E29B	A 99A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A100	E29B	A 100A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A101	E29B	A 101A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A102	E29B	A 102A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A103	E29B	A 103A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A104	E30B	A 104A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A105	E30B	A 105A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A106	E30B	A 106A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A107	E30B	A 107A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A108	E30B	A 108A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A109	E30B	A 109A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A110	E30B	A 110A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A111	E30B	A 111A	SHIELD GROUND (J5 CONNECTOR END)	22	3
SHLD A139	E20B	A 139A	SHIELD GROUND (J7 CONNECTOR END)	22	3
SHLD A184	E91B	A 184A	SHIELD GROUND (J8 CONNECTOR END)	22	3
SHLD A187	E91B	A 187A	SHIELD GROUND (J8 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A190	E91B	A 190A	SHIELD GROUND (J8 CONNECTOR END)	22	3
SHLD A191	E91B	A 191A	SHIELD GROUND (J8 CONNECTOR END)	22	3
SHLD A232	E32B	A 232A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A233	E32B	A 233A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A234	E37B	A 234A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A236	E32B	A 236A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A237	E32B	A 237A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A238	E32B	A 238A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A239	E32B	A 239A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A240	E32B	A 240A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A241	E33B	A 241A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A242	E33B	A 242A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A243	E33B	A 243A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A244	E33B	A 244A	SHIELD GROUND (J10 CONNECTOR END)	22	3
SHLD A249	E34B	A 249A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A251	E34B	A 251A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A255	E34B	A 255A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A256	E34B	A 256A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A257	E34B	A 257A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A258	E34B	A 258A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A259	E34B	A 259A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A260	E34B	A 260A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A268	E36B	A 268A	SHIELD GROUND (J21 CONNECTOR END)	22	3
SHLD A270	E93B	A 270A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A272	E94B	A 272A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A273	E94B	A 273A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A277	E57B	A 277A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A278	E57B	A 278A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A280	E34B	A 280A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A281	E34B	A 281A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A291	E35B	A 291A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A292	E35B	A 292A	SHIELD GROUND (J11 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A293	E35B	A 293A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A296	E35B	A 296A	SHIELD GROUND (J11 CONNECTOR END)	22	3
SHLD A311	E37B	A 311A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A313	E36B	A 313A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A314	E36B	A 314A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A315	E36B	A 315A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A316	E36B	A 316A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A317	E37B	A 317A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A318	E37B	A 318A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A319	E37B	A 319A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A320	E37B	A 320A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A321	E37B	A 321A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A323	E37B	A 323A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A324	E38B	A 324A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A325	E38B	A 325A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A326	E38B	A 326A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A327	E38B	A 327A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A328	E38B	A 328A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A329	E38B	A 329A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A330	E38B	A 330A	SHIELD GROUND (J22 CONNECTOR END)	22	3
SHLD A331	E89B	A 331A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A334	E89B	A 334A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A336	E89B	A 336A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A337	E89B	A 337A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A339	E90B	A 339A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A340	E90B	A 340A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A341	E90B	A 341A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A342	E90B	A 342A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A343	E90B	A 343A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A344	E90B	A 344A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A345	E90B	A 345A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A346	E90B	A 346A	SHIELD GROUND (J23 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A347	E90B	A 347A	SHIELD GROUND (J23 CONNECTOR END)	22	3
SHLD A349	E42B	A 349A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A350	E41B	A 350A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A351	E41B	A 351A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A352	E41B	A 352A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A353	E93B	A 353A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A359	E93B	A 359A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A360	E41B	A 360A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A361	E41B	A 361A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A362	E41B	A 362A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A363	E41B	A 363A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A364	E41B	A 364A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A365	E41B	A 365A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A366	E42B	A 366A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A368	E42B	A 368A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A369	E42B	A 369A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A370	E42B	A 370A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A371	E42B	A 371A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A372	E42B	A 372A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A373	E93B	A 373A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A375	E42B	A 375A	SHIELD GROUND (J24 CONNECTOR END)	22	3
SHLD A377	E44B	A 377A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A378	E44B	A 378A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A379	E44B	A 379A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A380	E44B	A 380A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A383	E43B	A 383A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A385	E43B	A 385A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A386	E43B	A 386A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A388	E43B	A 388A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A394	E44B	A 394A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A395	E44B	A 395A	SHIELD GROUND (J25 CONNECTOR END)	22	3
SHLD A398	J26-S	A 398A	SHIELD FEEDTHRU (J26 CONNECTOR END)	22	293

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A398	J33-C	A 398B	SHIELD FEEDTHRU (J33 CONNECTOR END)	22	293
SHLD A399	J26-A	A 399A	SHIELD FEEDTHRU (J26 CONNECTOR END)	22	272
SHLD A399	J38-C	A 399B	SHIELD FEEDTHRU (J38 CONNECTOR END)	22	272
SHLD A400	J26-T	A 400A	SHIELD FEEDTHRU (J26 CONNECTOR END)	22	294
SHLD A400	J32-C	A 400B	SHIELD FEEDTHRU (J32 CONNECTOR END)	22	294
SHLD A401	E45B	A 401A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A402	E45B	A 402A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A405	E45B	A 405A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A407	E46B	A 407A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A408	E46B	A 408A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A409	E46B	A 409A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A410	E46B	A 410A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A411	E46B	A 411A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A412	E46B	A 412A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A413	E46B	A 413A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A414	E47B	A 414A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A415	E47B	A 415A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A416	E47B	A 416A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A417	E47B	A 417A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A418	E47B	A 418A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A419	E47B	A 419A	SHIELD GROUND (J26 CONNECTOR END)	22	3
SHLD A428	E48B	A 428A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A436	E48B	A 436A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A437	E48B	A 437A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A438	E48B	A 438A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A439	E48B	A 439A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A449	E48B	A 449A	SHIELD GROUND (J27 CONNECTOR END)	22	3
SHLD A459	E50B	A 459A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A460	E50B	A 460A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A461	E50B	A 461A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A462	E50B	A 462A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A463	E50B	A 463A	SHIELD GROUND (J31 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A464	E50B	A 464A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A465	E50B	A 465A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A466	E50B	A 466A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A468	E50B	A 468A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A469	E51B	A 469A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A470	E51B	A 470A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A471	J31-C	A 471A	SHLD FEEDTHRU (J31 CONNECTOR END)	22	358
SHLD A471	J36-X	A 471B	SHLD FEEDTHRU (J36 CONNECTOR END)	22	358
SHLD A472	E51B	A 472A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A473	E51B	A 473A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A476	E51B	A 476A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A478	E51B	A 478A	SHIELD GROUND (J31 CONNECTOR END)	22	3
SHLD A483	E52B	A 483A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A484	E52B	A 484A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A485	E52B	A 485A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A486	E52B	A 486A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A487	E52B	A 487A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A488	E52B	A 488A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A489	E52B	A 489A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A490	E53B	A 490A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A491	E53B	A 491A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A492	E53B	A 492A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A495	E53B	A 495A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A496	E53B	A 496A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A497	E53B	A 497A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A498	E53B	A 498A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A499	E53B	A 499A	SHIELD GROUND (J32 CONNECTOR END)	22	3
SHLD A504	E54B	A 504A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A505	E54B	A 505A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A506	E54B	A 506A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A507	E54B	A 507A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A508	E54B	A 508A	SHIELD GROUND (J33 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A509	E54B	A 509A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A510	E54B	A 510A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A511	E54B	A 511A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A512	E55B	A 512A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A513	E54B	A 513A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A516	E55B	A 516A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A517	E55B	A 517A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A518	E55B	A 518A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A519	E55B	A 519A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A520	E55B	A 520A	SHIELD GROUND (J33 CONNECTOR END)	22	3
SHLD A523	E56B	A 523A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A524	E56B	A 524A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A529	E56B	A 529A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A530	E56B	A 530A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A531	E56B	A 531A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A532	E56B	A 532A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A542	E94B	A 542A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A544	E94B	A 544A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A547	E94B	A 547A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A550	E94B	A 550A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A551	E94B	A 551A	SHIELD GROUND (J34 CONNECTOR END)	22	3
SHLD A553	E57B	A 553A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A554	E57B	A 554A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A555	E57B	A 555A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A556	E57B	A 556A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A557	E57B	A 557A	SHIELD GROUND (J35 CONNECTOR END)	22	3
SHLD A562	E58B	A 562A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A563	E58B	A 563A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A564	E58B	A 564A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A565	E58B	A 565A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A566	E58B	A 566A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A567	E58B	A 567A	SHIELD GROUND (J36 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A568	E58B	A 568A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A569	E58B	A 569A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A570	J36-M	A 570A	SHLD FEEDTHRU (J36 CONNECTOR END)	22	440
SHLD A570	J37-C	A 570B	SHLD FEEDTHRU (J37 CONNECTOR END)	22	440
SHLD A571	E58B	A 571A	SHIELD GROUND (J36 CONNECTOR END)	22	3
SHLD A575	E61B	A 575A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A576	E61B	A 576A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A577	E59B	A 577A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A578	E59B	A 578A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A579	E59B	A 579A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A580	E59B	A 580A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A581	E59B	A 581A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A583	E59B	A 583A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A584	E59B	A 584A	SHIELD GROUND (J37 CONNECTOR END)	22	3
SHLD A589	E60B	A 589A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A590	E60B	A 590A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A591	E60B	A 591A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A592	E60B	A 592A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A593	E60B	A 593A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A594	E60B	A 594A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A595	E60B	A 595A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A596	E61B	A 596A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A597	E61B	A 597A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A598	E61B	A 598A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A601	E61B	A 601A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A602	E61B	A 602A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A603	E61B	A 603A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A604	E61B	A 604A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A605	E61B	A 605A	SHIELD GROUND (J38 CONNECTOR END)	22	3
SHLD A611	E62B	A 611A	SHIELD GROUND (J39 CONNECTOR END)	22	3
SHLD A612	E62B	A 612A	SHIELD GROUND (J39 CONNECTOR END)	22	3
SHLD A630	E62B	A 630A	SHIELD GROUND (J40 CONNECTOR END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) SHIELD GROUND					
SHLD A648	E63B	A 648A	SHIELD GROUND (J41 CONNECTOR END)	22	3
SHLD A649	E63B	A 649A	SHIELD GROUND (J41 CONNECTOR END)	22	3
SHLD A650	E63B	A 650A	SHIELD GROUND (J41 CONNECTOR END)	22	3
SHLD A655	E63B	A 655A	SHIELD GROUND (J42 CONNECTOR END)	22	3
SHLD A656	E63B	A 656A	SHIELD GROUND (J42 CONNECTOR END)	22	3
SHLD A662	E65B	A 662A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A666	E65B	A 666A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A675	E65B	A 675A	SHIELD GROUND (J43 CONNECTOR END)	22	3
SHLD A678	E66B	A 678A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A679	E66B	A 679A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A680	E66B	A 680A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A681	E66B	A 681A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A688	E63B	A 688A	SHIELD GROUND (J42 CONNECTOR END)	22	3
SHLD A701	E66B	A 701A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A702	E66B	A 702A	SHIELD GROUND (J44 CONNECTOR END)	22	3
SHLD A709	E67B	A 709A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A710	E67B	A 710A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A711	E67B	A 711A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A712	E67B	A 712A	SHIELD GROUND (J45 CONNECTOR END)	22	3
SHLD A767	E68B	A 767A	SHIELD GROUND (K18 END)	22	3
SHLD A768	E68B	A 768A	SHIELD GROUND (K18 END)	22	3
SHLD A769	E68B	A 769A	SHIELD GROUND (K18 END)	22	3
SHLD A798	E68B	A 798A	SHIELD GROUND (K29 END)	22	3
SHLD A810	E69B	A 810A	SHIELD GROUND (K20 END)	22	3
SHLD A836	E71B	A 836A	SHIELD GROUND (K38 END)	22	3
SHLD A838	E71B	A 838A	SHIELD GROUND (K38 END)	22	3
SHLD A841	E71B	A 841A	SHIELD GROUND (K40 END)	22	3
SHLD A842	E71B	A 842A	SHIELD GROUND (K40 END)	22	3
SHLD A843	E71B	A 843A	SHIELD GROUND (K40 END)	22	3
SHLD A845	E73B	A 845A	SHIELD GROUND (K41 END)	22	3
SHLD A850	E73B	A 850A	SHIELD GROUND (K43 END)	22	3
SHLD A855	E73B	A 855A	SHIELD GROUND (K44 END)	22	3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB2	TERMINAL BOARD POWER (1015918-115)				
TB2-3	TB2-4		JUMPER STRAP		131
TB2-3	J21-C	A 303	+28 VDC IMU BUS B	12	131
TB2-4	TB2-3		JUMPER STRAP		131
TB2-4	TB2-5		JUMPER STRAP		131
TB2-4	J46-J	A 717	+28 VDC IMU BUS B	12	131
TB2-5	TB2-4		JUMPER STRAP		131
TB2-5	J46-I	A 716	+28 VDC IMU BUS B	12	131
TB2-6	TB2-7		JUMPER STRAP		130
TB2-6	K1-B01	A 728	ISS OPERATE POWER LINE A HI	12	130
TB2-7	TB2-6		JUMPER STRAP		130
TB2-7	TB2-8		JUMPER STRAP		130
TB2-7	J40-J	A 620	+28 VDC IMU BUS A	12	130
TB2-8	TB2-7		JUMPER STRAP		130
TB2-8	TB2-9		JUMPER STRAP		130
TB2-8	J40-I	A 619	+28 VDC IMU BUS A	12	130
TB2-9	TB2-10		JUMPER STRAP		130
TB2-9	TB2-8		JUMPER STRAP		130
TB2-9	J21-A	A 301	+28 VDC IMU BUS A	12	130
TB2-10	TB2-9		JUMPER STRAP		130
TB2-10	J21-B	A 302	+28 VDC IMU BUS A	12	130
TB3	TERMINAL BOARD POWER (1015918-115)				
TB3-1	TB3-2		JUMPER STRAP		351
TB3-1	K6-9	A 752	+28 VDC OPTICS BUS B	16	351
TB3-2	TB3-1		JUMPER STRAP		351
TB3-2	TB3-3		JUMPER STRAP		351
TB3-2	J30-D	A 454	+28 VDC OPTICS BUS B	14	351
TB3-3	TB3-2		JUMPER STRAP		351
TB3-3	TB3-4		JUMPER STRAP		351

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 187 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB3	TERMINAL BOARD POWER (1015918-115)				
TB3-3	J30-C	A 453	+28 VDC OPTICS BUS B	14	351
TB3-4	TB3-3		JUMPER STRAP		351
TB3-4	TB3-5		JUMPER STRAP		351
TB3-4	J46-L	A 719	+28 VDC OPTICS BUS B	14	351
TB3-5	TB3-4		JUMPER STRAP		351
TB3-5	J46-K	A 718	+28 VDC OPTICS BUS B	14	351
TB3-6	TB3-7		JUMPER STRAP		1
TB3-6	K6-8	A 751	+28 VDC OPTICS BUS A	16	1
TB3-7	TB3-6		JUMPER STRAP		1
TB3-7	TB3-8		JUMPER STRAP		1
TB3-7	J40-L	A 622	+28 VDC OPTICS BUS A	14	1
TB3-8	TB3-7		JUMPER STRAP		1
TB3-8	TB3-9		JUMPER STRAP		1
TB3-8	J40-K	A 621	+28 VDC OPTICS BUS A	14	1
TB3-9	TB3-10		JUMPER STRAP		1
TB3-9	TB3-8		JUMPER STRAP		1
TB3-9	J30-A	A 451	+28 VDC OPTICS BUS A	14	1
TB3-10	TB3-9		JUMPER STRAP		1
TB3-10	J30-B	A 452	+28 VDC OPTICS BUS A	14	1
TB4	TERMINAL BOARD POWER (1015918-115)				
TB4-1	TB4-2		JUMPER STRAP		137
TB4-1	K6-13	A 754	28 VDC AGC B PWR HI	16	137
TB4-2	TB4-1		JUMPER STRAP		137
TB4-2	TB4-3		JUMPER STRAP		137
TB4-2	J21-P	A 269	+28 VDC AGC BUS B	12	137
TB4-3	TB4-2		JUMPER STRAP		137
TB4-3	TB4-4		JUMPER STRAP		137
TB4-4	TB4-3		JUMPER STRAP		137

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB4	TERMINAL BOARD POWER (1015918-115)				
TB4-4	TB4-5		JUMPER STRAP		137
TB4-4	J46-N	A 721	+28 VDC AGC BUS B	14	137
TB4-5	TB4-4		JUMPER STRAP		137
TB4-5	J46-M	A 720	+28 VDC AGC BUS B	14	137
TB4-6	TB4-7		JUMPER STRAP		132
TB4-6	K6-14	A 755	28 VDC AGC POWER LINE A HI	16	132
TB4-7	TB4-6		JUMPER STRAP		132
TB4-7	TB4-8		JUMPER STRAP		132
TB4-7	J40-N	A 624	+28 VDC AGC BUS A	14	132
TB4-8	TB4-7		JUMPER STRAP		132
TB4-8	TB4-9		JUMPER STRAP		132
TB4-8	J40-M	A 623	+28 VDC AGC BUS A	14	132
TB4-9	TB4-10		JUMPER STRAP		132
TB4-9	TB4-8		JUMPER STRAP		132
TB4-10	TB4-9		JUMPER STRAP		132
TB4-10	J21-H	A 267	+28 VDC AGC BUS A	12	132
TB5	TERMINAL BOARD POWER (1015918-110)				
TB5-1	TB5-2		JUMPER STRAP		134
TB5-1	K6-6	A 749	28 VDC STANDBY BUS B	16	134
TB5-2	TB5-1		JUMPER STRAP		134
TB5-2	TB5-3		JUMPER STRAP		134
TB5-3	TB5-2		JUMPER STRAP		134
TB5-3	J21-L	A 309	+28 VDC STANDBY BUS B	16	134
TB5-3	J46-D	A 714	+28 VDC STBY BUS B	16	134
TB5-4	TB5-5		JUMPER STRAP		133
TB5-4	J21-K	A 308	+28 VDC STANDBY BUS A	16	133
TB5-4	J40-D	A 617	+28 VDC STBY BUS A	16	133
TB5-5	TB5-4		JUMPER STRAP		133

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB5	TERMINAL BOARD POWER (1015918-110)				
TB5-5	TB5-6		JUMPER STRAP		133
TB5-6	TB5-5		JUMPER STRAP		133
TB5-6	K6-7	A 750	28 VDC STANDBY BUS A	16	133
TB5-7	TB5-8		JUMPER STRAP		524
TB5-7	XF20-2	A 128	28 VDC AGE POWER REMOTE SENSE HI	20	524
TB5-7	XF1-2	A 977	28 VDC AGE POWER HI	16	524
TB5-8	TB5-7		JUMPER STRAP		524
TB5-8	TB5-9		JUMPER STRAP		524
TB5-8	XF2-2	A 978	28 VDC AGE POWER HI	12	524
TB5-8	J7-L	A1187	28 VDC AGE HI (REMOTE SENSE)	20	524
TB5-9	TB5-10		JUMPER STRAP		524
TB5-9	TB5-8		JUMPER STRAP		524
TB5-9	J6-C	A 113	28 VDC AGE POWER HI	8	524
TB5-9	XF3-2	A 979	28 VDC AGE POWER HI	16	524
TB5-10	TB5-9		JUMPER STRAP		524
TB5-10	J6-F	A 116	28 VDC AGE POWER REMOTE SENSE HI	16	524
TB5-10	XF4-2	A 980	28 VDC AGE POWER HI	16	524
TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-1A	TB6-1B		INTERNAL BUS		206
TB6-1A	J23-R*	A 347R	LAMP VOLTAGE	24	206
TB6-1B	TB6-1A		INTERNAL BUS		206
TB6-1B	TB6-1C		INTERNAL BUS		206
TB6-1B	J38-LL	A 603R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-1C	TB6-1B		INTERNAL BUS		206
TB6-1C	TB6-1D		INTERNAL BUS		206
TB6-1C	J32-LL	A 497R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-1D	TB6-1C		INTERNAL BUS		206
TB6-1D	TB6-1E		INTERNAL BUS		206

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FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-1D	J33-LL	A 518R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-1E	TB6-1D		INTERNAL BUS		206
TB6-1E	TB6-1F		INTERNAL BUS		206
TB6-1E	J37-KK	A 583R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-1F	TB6-1E		INTERNAL BUS		206
TB6-1F	TB6-2F	AA107	6 VOLT 400 CPS LAMP POWER HI	20	206
TB6-2A	TB6-2B		INTERNAL BUS		206
TB6-2A	TB6-3A	AA127	400 CPS VARIABLE ILLUMINATION POWER	20	206
TB6-2B	TB6-2A		INTERNAL BUS		206
TB6-2B	TB6-2C		INTERNAL BUS		206
TB6-2B	J24-L	A 353R	400 CPS VARIABLE ILLUMINATION POWER	24	206
TB6-2C	TB6-2B		INTERNAL BUS		206
TB6-2C	TB6-2D		INTERNAL BUS		206
TB6-2C	R1-2	A1135	6 VOLT 400 CPS HI	20	206
TB6-2D	TB6-2C		INTERNAL BUS		206
TB6-2D	TB6-2E		INTERNAL BUS		206
TB6-2D	J34-G*	A 532R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-2E	TB6-2D		INTERNAL BUS		206
TB6-2E	TB6-2F		INTERNAL BUS		206
TB6-2E	J31-NN	A 478R	6 VOLT 400 CPS LAMP POWER HI	22	206
TB6-2F	TB6-2E		INTERNAL BUS		206
TB6-2F	TB6-1F	AA107	6 VOLT 400 CPS LAMP POWER HI	20	206
TB6-3A	TB6-3B		INTERNAL BUS		206
TB6-3A	TB6-2A	AA127	400 CPS VARIABLE ILLUMINATION POWER	20	206
TB6-3B	TB6-3A		INTERNAL BUS		206
TB6-3B	TB6-3C		INTERNAL BUS		206
TB6-3B	J39-V*	A 611W	VARIABLE ILLUM AND IND LAMP PWR 400 CPS HI	20	206
TB6-3C	TB6-3B		INTERNAL BUS		206
TB6-3C	TB6-3D		INTERNAL BUS		206
TB6-3C	J39-W*	A 612W	400 CPS VARIABLE LAMP SUPPLY HI (FROM D AND C	20	206
TB6-3D	TB6-3C		INTERNAL BUS		206
TB6-3D	TB6-3E		INTERNAL BUS		206

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-3D	J43-E	A1054W	400 CPS VARIABLE LAMP SUPPLY HI (FROM D AND C	20	206
TB6-3E	TB6-3D		INTERNAL BUS		206
TB6-3E	TB6-3F		INTERNAL BUS		206
TB6-3E	R2-2	A1136	6 VOLT 400 CPS HI	20	206
TB6-3F	TB6-3E		INTERNAL BUS		206
TB6-4A	TB6-4B		INTERNAL BUS		7
TB6-4A	J23-S*	A 347L	LAMP VOLTAGE	24	7
TB6-4B	TB6-4A		INTERNAL BUS		7
TB6-4B	TB6-4C		INTERNAL BUS		7
TB6-4B	J38-MM	A 603L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4C	TB6-4B		INTERNAL BUS		7
TB6-4C	TB6-4D		INTERNAL BUS		7
TB6-4C	J32-MM	A 497L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4D	TB6-4C		INTERNAL BUS		7
TB6-4D	TB6-4E		INTERNAL BUS		7
TB6-4D	J33-MM	A 518L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4E	TB6-4D		INTERNAL BUS		7
TB6-4E	TB6-4F		INTERNAL BUS		7
TB6-4E	J37-LL	A 583L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-4F	TB6-4E		INTERNAL BUS		7
TB6-4F	TB6-5F	AA108	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-5A	TB6-5B		INTERNAL BUS		7
TB6-5A	TB6-6A	AA149	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-5B	TB6-5A		INTERNAL BUS		7
TB6-5B	TB6-5C		INTERNAL BUS		7
TB6-5B	J24-M	A 353L	6 VOLT 400 CPS LO	24	7
TB6-5C	TB6-5B		INTERNAL BUS		7
TB6-5C	TB6-5D		INTERNAL BUS		7
TB6-5C	J32-E	A1130	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-5D	TB6-5C		INTERNAL BUS		7
TB6-5D	TB6-5E		INTERNAL BUS		7
TB6-5D	J34-H*	A 532L	6 VOLT 400 CPS LAMP POWER LO	22	7

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-5E	TB6-5D		INTERNAL BUS		7
TB6-5E	TB6-5F		INTERNAL BUS		7
TB6-5E	J31-PP	A 478L	6 VOLT 400 CPS LAMP POWER LO	22	7
TB6-5F	TB6-5E		INTERNAL BUS		7
TB6-5F	TB6-4F	AA108	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-6A	TB6-6B		INTERNAL BUS		7
TB6-6A	TB6-5A	AA149	6 V 400 CPS LAMP POWER LO	20	7
TB6-6B	TB6-6A		INTERNAL BUS		7
TB6-6B	TB6-6C		INTERNAL BUS		7
TB6-6B	K8-8	A 760	6 VOLT 400 CPS LAMP POWER LO	24	7
TB6-6C	TB6-6B		INTERNAL BUS		7
TB6-6C	TB6-6D		INTERNAL BUS		7
TB6-6C	TB8-6	A1105	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-6D	TB6-6C		INTERNAL BUS		7
TB6-6D	TB6-6E		INTERNAL BUS		7
TB6-6D	J31-E	A1128	6 VOLT 400 CPS LAMP POWER LO	20	7
TB6-6E	TB6-6D		INTERNAL BUS		7
TB6-6E	TB6-6F		INTERNAL BUS		7
TB6-6E	J47-J	A1191	400 CPS SHIELD GROUND BUS	20	7
TB6-6F	TB6-6E		INTERNAL BUS		7
TB6-6F	J47-L	A1195	400 CPS LO BUS	20	7
TB6-7A	TB6-7B		INTERNAL BUS		355
TB6-7A	TB7-15B	A 970	RELAY AND LAMP POWER LO	20	355
TB6-7B	TB6-7A		INTERNAL BUS		355
TB6-7B	TB6-7C		INTERNAL BUS		355
TB6-7B	TB1-1	A 969	27 VDC RELAY AND LAMP POWER GROUND	20	355
TB6-7C	TB6-7B		INTERNAL BUS		355
TB6-7C	TB6-7D		INTERNAL BUS		355
TB6-7C	K8-11	A 762	RELAY AND LAMP POWER LO	20	355
TB6-7D	TB6-7C		INTERNAL BUS		355
TB6-7D	TB6-7E		INTERNAL BUS		355
TB6-7D	K2-X02	A 733	RELAY AND LAMP POWER LO	20	355

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-7E	TB6-7D		INTERNAL BUS		355
TB6-7E	TB6-7F		INTERNAL BUS		355
TB6-7E	K3-11	A 737	RELAY AND LAMP POWER LO	20	355
TB6-7F	TB6-7E		INTERNAL BUS		355
TB6-7F	TB6-8F	AA109	RELAY AND LAMP POWER LO	20	355
TB6-8A	TB6-8B		INTERNAL BUS		355
TB6-8A	K4-11	A 742	RELAY AND LAMP POWER LO	20	355
TB6-8B	TB6-8A		INTERNAL BUS		355
TB6-8B	TB6-8C		INTERNAL BUS		355
TB6-8B	K5-11	A 746	RELAY AND LAMP POWER LO	20	355
TB6-8C	TB6-8B		INTERNAL BUS		355
TB6-8C	TB6-8D		INTERNAL BUS		355
TB6-8D	TB6-8C		INTERNAL BUS		355
TB6-8D	TB6-8E		INTERNAL BUS		355
TB6-8E	TB6-8D		INTERNAL BUS		355
TB6-8E	TB6-8F		INTERNAL BUS		355
TB6-8F	TB6-8E		INTERNAL BUS		355
TB6-8F	TB6-7F	AA109	RELAY AND LAMP POWER LO	20	355
TB6-9A	TB6-9B		INTERNAL BUS		189
TB6-9B	TB6-9A		INTERNAL BUS		189
TB6-9B	TB6-9C		INTERNAL BUS		189
TB6-9B	J35-J	A 277Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
TB6-9C	TB6-9B		INTERNAL BUS		189
TB6-9C	TB6-9D		INTERNAL BUS		189
TB6-9C	J23-D*	A 342Y	SCT SHAFT MOTOR CONTROL WINDING	20	189
TB6-9D	TB6-9C		INTERNAL BUS		189
TB6-9D	TB6-9E		INTERNAL BUS		189
TB6-9D	J5-A*	A 94R	SCT SHAFT MTR CONTR WIND	24	189
TB6-9E	TB6-9D		INTERNAL BUS		189
TB6-9E	TB6-9F		INTERNAL BUS		189
TB6-9F	TB6-9E		INTERNAL BUS		189
TB6-10A	TB6-10B		INTERNAL BUS		188

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-10B	TB6-10C		INTERNAL BUS		188
TB6-10B	TB6-10A		INTERNAL BUS		188
TB6-10B	J35-H	A 277L	SCT SHAFT MOTOR CONTROL WINDING	20	188
TB6-10C	TB6-10D		INTERNAL BUS		188
TB6-10C	TB6-10B		INTERNAL BUS		188
TB6-10C	J23-C*	A 342L	SCT SHAFT MOTOR CONTROL WINDING	20	188
TB6-10D	TB6-10E		INTERNAL BUS		188
TB6-10D	TB6-10C		INTERNAL BUS		188
TB6-10D	J5-B*	A 94L	SCT SHAFT MTR CONTR WIND	24	188
TB6-10E	TB6-10F		INTERNAL BUS		188
TB6-10E	TB6-10D		INTERNAL BUS		188
TB6-10F	TB6-10E		INTERNAL BUS		188
TB6-11A	TB6-11B		INTERNAL BUS		187
TB6-11B	TB6-11C		INTERNAL BUS		187
TB6-11B	TB6-11A		INTERNAL BUS		187
TB6-11B	K26-7	A1158	SCT MOTOR CONTROL CT (+28 VDC HI)	20	187
TB6-11C	TB6-11D		INTERNAL BUS		187
TB6-11C	TB6-11B		INTERNAL BUS		187
TB6-11C	J23-B*	A 342R	SCT MOTOR CONTROL CT (+28 VDC HI)	20	187
TB6-11D	TB6-11E		INTERNAL BUS		187
TB6-11D	TB6-11C		INTERNAL BUS		187
TB6-11E	TB6-11F		INTERNAL BUS		187
TB6-11E	TB6-11D		INTERNAL BUS		187
TB6-11F	TB6-11E		INTERNAL BUS		187
TB6-12A	TB6-12B		INTERNAL BUS		194
TB6-12B	TB6-12C		INTERNAL BUS		194
TB6-12B	TB6-12A		INTERNAL BUS		194
TB6-12B	J35-S	A 278Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
TB6-12C	TB6-12D		INTERNAL BUS		194
TB6-12C	TB6-12B		INTERNAL BUS		194
TB6-12C	J23-G	A 334Y	SCT TRUNNION MOTOR CONTROL WINDING	24	194
TB6-12D	TB6-12E		INTERNAL BUS		194

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-12D	TB6-12C		INTERNAL BUS		194
TB6-12D	J5-U	A 91L	SCT TRUNN MTR CONTR WIND	24	194
TB6-12E	TB6-12F		INTERNAL BUS		194
TB6-12E	TB6-12D		INTERNAL BUS		194
TB6-12F	TB6-12E		INTERNAL BUS		194
TB6-13A	TB6-13B		INTERNAL BUS		192
TB6-13B	TB6-13C		INTERNAL BUS		192
TB6-13B	TB6-13A		INTERNAL BUS		192
TB6-13B	J35-T	A 278L	OPTICS +28 VDC	24	192
TB6-13C	TB6-13D		INTERNAL BUS		192
TB6-13C	TB6-13B		INTERNAL BUS		192
TB6-13C	J23-F	A 334L	SCT MOTOR CONTROL CT (+28 VDC HI)	24	192
TB6-13D	TB6-13E		INTERNAL BUS		192
TB6-13D	TB6-13C		INTERNAL BUS		192
TB6-13E	TB6-13F		INTERNAL BUS		192
TB6-13E	TB6-13D		INTERNAL BUS		192
TB6-13F	TB6-13E		INTERNAL BUS		192
TB6-14A	TB6-14B		INTERNAL BUS		190
TB6-14B	TB6-14C		INTERNAL BUS		190
TB6-14B	TB6-14A		INTERNAL BUS		190
TB6-14B	J35-R	A 278R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
TB6-14C	TB6-14D		INTERNAL BUS		190
TB6-14C	TB6-14B		INTERNAL BUS		190
TB6-14C	J23-E	A 334R	SCT TRUNNION MOTOR CONTROL WINDING	24	190
TB6-14D	TB6-14E		INTERNAL BUS		190
TB6-14D	TB6-14C		INTERNAL BUS		190
TB6-14D	J5-T	A 91R	SCT TRUNN MTR CONTR WIND	24	190
TB6-14E	TB6-14F		INTERNAL BUS		190
TB6-14E	TB6-14D		INTERNAL BUS		190
TB6-14F	TB6-14E		INTERNAL BUS		190
TB6-15A	TB6-15B		INTERNAL BUS		612
TB6-15B	TB6-15C		INTERNAL BUS		612

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-15B	TB6-15A		INTERNAL BUS		612
TB6-15C	TB6-15D		INTERNAL BUS		612
TB6-15C	TB6-15B		INTERNAL BUS		612
TB6-15D	TB6-15E		INTERNAL BUS		612
TB6-15D	TB6-15C		INTERNAL BUS		612
TB6-15E	TB6-15F		INTERNAL BUS		612
TB6-15E	TB6-15D		INTERNAL BUS		612
TB6-15F	TB6-15E		INTERNAL BUS		612
TB6-16A	TB6-16B		INTERNAL BUS		187
TB6-16A	J35-K	A 277R	OPTICS +28 VDC	20	187
TB6-16B	TB6-16C		INTERNAL BUS		187
TB6-16B	TB6-16A		INTERNAL BUS		187
TB6-16B	K26-5	A1159	OPTICS +28 VDC	20	187
TB6-16C	TB6-16D		INTERNAL BUS		187
TB6-16C	TB6-16B		INTERNAL BUS		187
TB6-16D	TB6-16E		INTERNAL BUS		187
TB6-16D	TB6-16C		INTERNAL BUS		187
TB6-16E	TB6-16F		INTERNAL BUS		187
TB6-16E	TB6-16D		INTERNAL BUS		187
TB6-16F	TB6-16E		INTERNAL BUS		187
TB6-17A	TB6-17B		INTERNAL BUS		613
TB6-17B	TB6-17C		INTERNAL BUS		613
TB6-17B	TB6-17A		INTERNAL BUS		613
TB6-17C	TB6-17D		INTERNAL BUS		613
TB6-17C	TB6-17B		INTERNAL BUS		613
TB6-17D	TB6-17E		INTERNAL BUS		613
TB6-17D	TB6-17C		INTERNAL BUS		613
TB6-17E	TB6-17F		INTERNAL BUS		613
TB6-17E	TB6-17D		INTERNAL BUS		613
TB6-17F	TB6-17E		INTERNAL BUS		613
TB6-18A	TB6-18B		INTERNAL BUS		614
TB6-18B	TB6-18C		INTERNAL BUS		614

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB6	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB6-18B	TB6-18A		INTERNAL BUS		614
TB6-18C	TB6-18D		INTERNAL BUS		614
TB6-18C	TB6-18B		INTERNAL BUS		614
TB6-18D	TB6-18E		INTERNAL BUS		614
TB6-18D	TB6-18C		INTERNAL BUS		614
TB6-18E	TB6-18F		INTERNAL BUS		614
TB6-18E	TB6-18D		INTERNAL BUS		614
TB6-18F	TB6-18E		INTERNAL BUS		614
TB6-19A	TB6-19B		INTERNAL BUS		615
TB6-19B	TB6-19C		INTERNAL BUS		615
TB6-19B	TB6-19A		INTERNAL BUS		615
TB6-19C	TB6-19D		INTERNAL BUS		615
TB6-19C	TB6-19B		INTERNAL BUS		615
TB6-19D	TB6-19E		INTERNAL BUS		615
TB6-19D	TB6-19C		INTERNAL BUS		615
TB6-19E	TB6-19F		INTERNAL BUS		615
TB6-19E	TB6-19D		INTERNAL BUS		615
TB6-19F	TB6-19E		INTERNAL BUS		615
TB6-20A	TB6-20B		INTERNAL BUS		616
TB6-20B	TB6-20C		INTERNAL BUS		616
TB6-20B	TB6-20A		INTERNAL BUS		616
TB6-20C	TB6-20D		INTERNAL BUS		616
TB6-20C	TB6-20B		INTERNAL BUS		616
TB6-20D	TB6-20E		INTERNAL BUS		616
TB6-20D	TB6-20C		INTERNAL BUS		616
TB6-20E	TB6-20F		INTERNAL BUS		616
TB6-20E	TB6-20D		INTERNAL BUS		616
TB6-20F	TB6-20E		INTERNAL BUS		616

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE - NONE	REV LTR C	SHEET 198 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-1A	TB7-1B		INTERNAL BUS		617
TB7-1B	TB7-1A		INTERNAL BUS		617
TB7-1B	TB7-1C		INTERNAL BUS		617
TB7-1C	TB7-1B		INTERNAL BUS		617
TB7-1C	TB7-1D		INTERNAL BUS		617
TB7-1D	TB7-1C		INTERNAL BUS		617
TB7-1D	TB7-1E		INTERNAL BUS		617
TB7-1E	TB7-1D		INTERNAL BUS		617
TB7-1E	TB7-1F		INTERNAL BUS		617
TB7-1F	TB7-1E		INTERNAL BUS		617
TB7-2A	TB7-2B		INTERNAL BUS		618
TB7-2B	TB7-2A		INTERNAL BUS		618
TB7-2B	TB7-2C		INTERNAL BUS		618
TB7-2C	TB7-2B		INTERNAL BUS		618
TB7-2C	TB7-2D		INTERNAL BUS		618
TB7-2D	TB7-2C		INTERNAL BUS		618
TB7-2D	TB7-2E		INTERNAL BUS		618
TB7-2E	TB7-2D		INTERNAL BUS		618
TB7-2E	TB7-2F		INTERNAL BUS		618
TB7-2F	TB7-2E		INTERNAL BUS		618
TB7-3A	TB7-3B		INTERNAL BUS		199
TB7-3A	J24-Y*	A 370L	SHAFT CDU 1/2X SINE HI P1	24	199
TB7-3B	TB7-3A		INTERNAL BUS		199
TB7-3B	TB7-3C		INTERNAL BUS		199
TB7-3B	J23-J*	A 345R	SCT 1/2 X SHAFT RSVR P3	24	199
TB7-3C	TB7-3B		INTERNAL BUS		199
TB7-3C	TB7-3D		INTERNAL BUS		199
TB7-3C	J41-C*	A 648R	SHAFT CDU 1/2X SIN HI	24	199
TB7-3D	TB7-3C		INTERNAL BUS		199
TB7-3D	TB7-3E		INTERNAL BUS		199
TB7-3D	J37-B*	A 576R	SHAFT CDU 1/2X SIN HI	24	199
TB7-3E	TB7-3D		INTERNAL BUS		199

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 199 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-3E	TB7-3F		INTERNAL BUS		199
TB7-3F	TB7-3E		INTERNAL BUS		199
TB7-4A	TB7-4B		INTERNAL BUS		201
TB7-4A	J24-Z*	A 370R	SHAFT CDU 1/2X SINE LO P3	24	201
TB7-4B	TB7-4A		INTERNAL BUS		201
TB7-4B	TB7-4C		INTERNAL BUS		201
TB7-4B	J23-K*	A 345L	SCT 1/2 X SHAFT RSVR P1	24	201
TB7-4C	TB7-4B		INTERNAL BUS		201
TB7-4C	TB7-4D		INTERNAL BUS		201
TB7-4C	J41-D*	A 648L	SHAFT CDU 1/2X SIN LO	24	201
TB7-4D	TB7-4C		INTERNAL BUS		201
TB7-4D	TB7-4E		INTERNAL BUS		201
TB7-4D	J37-C*	A 576L	SHAFT CDU 1/2X SIN LO	24	201
TB7-4E	TB7-4D		INTERNAL BUS		201
TB7-4E	TB7-4F		INTERNAL BUS		201
TB7-4F	TB7-4E		INTERNAL BUS		201
TB7-5A	TB7-5B		INTERNAL BUS		224
TB7-5A	J24-E*	A 362R	TRUNNION CDU 1/4X COSINE HI	24	224
TB7-5B	TB7-5A		INTERNAL BUS		224
TB7-5B	TB7-5C		INTERNAL BUS		224
TB7-5B	J31-G*	A 462R	TRUNNION CDU 1/4X COS HI	24	224
TB7-5C	TB7-5B		INTERNAL BUS		224
TB7-5C	TB7-5D		INTERNAL BUS		224
TB7-5C	J41-N*	A 650R	TRUNNION CDU 1/4X COS HI	24	224
TB7-5D	TB7-5C		INTERNAL BUS		224
TB7-5D	TB7-5E		INTERNAL BUS		224
TB7-5E	TB7-5D		INTERNAL BUS		224
TB7-5E	TB7-5F		INTERNAL BUS		224
TB7-5F	TB7-5E		INTERNAL BUS		224
TB7-6A	TB7-6B		INTERNAL BUS		226
TB7-6A	J24-F*	A 362L	TRUNNION CDU 1/4X COSINE LO	24	226
TB7-6B	TB7-6A		INTERNAL BUS		226

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 200 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-6B	TB7-6C		INTERNAL BUS		226
TB7-6B	J31-H*	A 462L	TRUNNION CDU 1/4X COS LO	24	226
TB7-6C	TB7-6B		INTERNAL BUS		226
TB7-6C	TB7-6D		INTERNAL BUS		226
TB7-6C	J41-P*	A 650L	TRUNNION CDU 1/4X COS LO	24	226
TB7-6D	TB7-6C		INTERNAL BUS		226
TB7-6D	TB7-6E		INTERNAL BUS		226
TB7-6E	TB7-6D		INTERNAL BUS		226
TB7-6E	TB7-6F		INTERNAL BUS		226
TB7-6F	TB7-6E		INTERNAL BUS		226
TB7-7A	TB7-7B		INTERNAL BUS		619
TB7-7B	TB7-7A		INTERNAL BUS		619
TB7-7B	TB7-7C		INTERNAL BUS		619
TB7-7C	TB7-7B		INTERNAL BUS		619
TB7-7C	TB7-7D		INTERNAL BUS		619
TB7-7D	TB7-7C		INTERNAL BUS		619
TB7-7D	TB7-7E		INTERNAL BUS		619
TB7-7E	TB7-7D		INTERNAL BUS		619
TB7-7E	TB7-7F		INTERNAL BUS		619
TB7-7F	TB7-7E		INTERNAL BUS		619
TB7-8A	TB7-8B		INTERNAL BUS		525
TB7-8B	TB7-8A		INTERNAL BUS		525
TB7-8B	TB7-8C		INTERNAL BUS		525
TB7-8C	TB7-8B		INTERNAL BUS		525
TB7-8C	TB7-8D		INTERNAL BUS		525
TB7-8C	XF19-2	A1099	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-8D	TB7-8C		INTERNAL BUS		525
TB7-8D	TB7-8E		INTERNAL BUS		525
TB7-8D	K54-16	A1085	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-8E	TB7-8D		INTERNAL BUS		525
TB7-8E	TB7-8F		INTERNAL BUS		525
TB7-8E	K42-19	A1086	27 VDC RELAY AND LAMP POWER HI	20	525

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 201 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-8F	TB7-8E		INTERNAL BUS		525
TB7-8F	TB7-11F	AA148	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-9A	TB7-9B		INTERNAL BUS		80
TB7-9B	TB7-9A		INTERNAL BUS		80
TB7-9B	TB7-9C		INTERNAL BUS		80
TB7-9B	J26-U	A 401R	DUCOSYN EXCITATION FEEDBACK HI	20	80
TB7-9C	TB7-9B		INTERNAL BUS		80
TB7-9C	TB7-9D		INTERNAL BUS		80
TB7-9C	J11-N	A 255R	3200 CPS 2 V FDBK HI	20	80
TB7-9D	TB7-9C		INTERNAL BUS		80
TB7-9D	TB7-9E		INTERNAL BUS		80
TB7-9D	J3-JJ	A 60R	3200 CPS 2V FDBK HI	20	80
TB7-9E	TB7-9D		INTERNAL BUS		80
TB7-9E	TB7-9F		INTERNAL BUS		80
TB7-9F	TB7-9E		INTERNAL BUS		80
TB7-10A	TB7-10B		INTERNAL BUS		83
TB7-10B	TB7-10C		INTERNAL BUS		83
TB7-10B	TB7-10A		INTERNAL BUS		83
TB7-10B	J26-V	A 401L	DUCOSYN EXCITATION FEEDBACK LO	20	83
TB7-10C	TB7-10D		INTERNAL BUS		83
TB7-10C	TB7-10B		INTERNAL BUS		83
TB7-10C	J11-P	A 255L	3200 CPS 2 V FDBK LO	20	83
TB7-10D	TB7-10E		INTERNAL BUS		83
TB7-10D	TB7-10C		INTERNAL BUS		83
TB7-10D	J3-KK	A 60L	3200 CPS 2V FDBK LO	20	83
TB7-10E	TB7-10F		INTERNAL BUS		83
TB7-10E	TB7-10D		INTERNAL BUS		83
TB7-10F	TB7-10E		INTERNAL BUS		83
TB7-11A	TB7-11B		INTERNAL BUS		525
TB7-11A	TB7-12A	AA110	27 VDC RELAY AND LAMP POWER HI	20	525
TB7-11B	TB7-11C		INTERNAL BUS		525
TB7-11B	TB7-11A		INTERNAL BUS		525

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 202 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T87	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
T87-11C	T87-11D		INTERNAL BUS		525
T87-11C	T87-11B		INTERNAL BUS		525
T87-11D	T87-11E		INTERNAL BUS		525
T87-11D	T87-11C		INTERNAL BUS		525
T87-11E	T87-11F		INTERNAL BUS		525
T87-11E	T87-11D		INTERNAL BUS		525
T87-11E	XF19-2	A1098	27 VDC RELAY AND LAMP POWER HI	20	525
T87-11F	T87-11E		INTERNAL BUS		525
T87-11F	T87-8F	AA148	27 VDC RELAY AND LAMP POWER HI	20	525
T87-12A	T87-12B		INTERNAL BUS		525
T87-12A	T87-11A	AA110	27 VDC RELAY AND LAMP POWER HI	20	525
T87-12B	T87-12C		INTERNAL BUS		525
T87-12B	T87-12A		INTERNAL BUS		525
T87-12B	P1-X	A 958	27 VDC RELAY AND LAMP POWER HI	24	525
T87-12C	T87-12D		INTERNAL BUS		525
T87-12C	T87-12B		INTERNAL BUS		525
T87-12D	T87-12E		INTERNAL BUS		525
T87-12D	T87-12C		INTERNAL BUS		525
T87-12D	K17-2	A 763	27 VDC RELAY AND LAMP POWER HI	20	525
T87-12E	T87-12F		INTERNAL BUS		525
T87-12E	T87-12D		INTERNAL BUS		525
T87-12E	K6-3	A 747	27 VDC RELAY AND LAMP POWER HI	20	525
T87-12F	T87-12E		INTERNAL BUS		525
T87-12F	K2-12	A1097	27 VDC RELAY AND LAMP POWER HI	20	525
T87-13A	T87-13B		INTERNAL BUS		355
T87-13A	T87-14A	AA123	27 VDC RELAY AND LAMP POWER LO	20	355
T87-13B	T87-13C		INTERNAL BUS		355
T87-13B	T87-13A		INTERNAL BUS		355
T87-13B	K29-11	A 800	27 VDC RELAY AND LAMP POWER LO	20	355
T87-13C	T87-13D		INTERNAL BUS		355
T87-13C	T87-13B		INTERNAL BUS		355
T87-13C	K18-11	A 771	27 VDC RELAY AND LAMP POWER LO	20	355

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 203 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T87	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
T87-13D	T87-13E		INTERNAL BUS		355
T87-13D	T87-13C		INTERNAL BUS		355
T87-13D	K19-2	A 775	27 VDC RELAY AND LAMP POWER LO	20	355
T87-13E	T87-13F		INTERNAL BUS		355
T87-13E	T87-13D		INTERNAL BUS		355
T87-13E	K20-11	A 779	27 VDC RELAY AND LAMP POWER LO	20	355
T87-13F	T87-13E		INTERNAL BUS		355
T87-13F	J41-N	A 645	OSS INTERLOCK OUT		355
T87-14A	T87-14B		INTERNAL BUS		355
T87-14A	T87-13A	AA123	27 VDC RELAY AND LAMP POWER LO	20	355
T87-14B	T87-14C		INTERNAL BUS		355
T87-14B	T87-14A		INTERNAL BUS		355
T87-14B	K27-11	A 792	27 VDC RELAY AND LAMP POWER LO	20	355
T87-14C	T87-14D		INTERNAL BUS		355
T87-14C	T87-14B		INTERNAL BUS		355
T87-14C	K28-11	A 796	27 VDC RELAY AND LAMP POWER LO	20	355
T87-14D	T87-14E		INTERNAL BUS		355
T87-14D	T87-14C		INTERNAL BUS		355
T87-14D	J30-L	A1189	27 VDC RLP LO	20	355
T87-14E	T87-14F		INTERNAL BUS		355
T87-14E	T87-14D		INTERNAL BUS		355
T87-14F	T87-14E		INTERNAL BUS		355
T87-14F	T87-15F	AA124	27 VDC RELAY AND LAMP POWER LO	20	355
T87-15A	T87-15B		INTERNAL BUS		355
T87-15A	T87-16A	AA111	27 VDC RELAY AND LAMP POWER LO	20	355
T87-15B	T87-15C		INTERNAL BUS		355
T87-15B	T87-15A		INTERNAL BUS		355
T87-15B	T86-7A	A 970	27 VDC RELAY AND LAMP POWER LO	20	355
T87-15C	T87-15D		INTERNAL BUS		355
T87-15C	T87-15B		INTERNAL BUS		355
T87-15C	TB12-1	A 971	27 VDC RELAY AND LAMP POWER GROUND	20	355
T87-15D	T87-15E		INTERNAL BUS		355

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 204 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T87	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
T87-15D	T87-15C		INTERNAL BUS		355
T87-15D	K25-2	A 789	27 VDC RELAY AND LAMP POWER LO	20	355
T87-15E	T87-15F		INTERNAL BUS		355
T87-15E	T87-15D		INTERNAL BUS		355
T87-15E	J7-D	A1084	27 VDC RELAY AND LAMP POWER LO	20	355
T87-15F	T87-15E		INTERNAL BUS		355
T87-15F	T87-14F	AA124	27 VDC RELAY AND LAMP POWER LO	20	355
T87-16A	T87-16B		INTERNAL BUS		355
T87-16A	T87-15A	AA111	27 VDC RELAY AND LAMP POWER LO	20	355
T87-16B	T87-16C		INTERNAL BUS		355
T87-16B	T87-16A		INTERNAL BUS		355
T87-16B	P1-B	A 951	27 VDC RELAY AND LAMP POWER LO	20	355
T87-16C	T87-16D		INTERNAL BUS		355
T87-16C	T87-16B		INTERNAL BUS		355
T87-16C	K67-2	A 947	27 VDC RELAY AND LAMP POWER LO	20	355
T87-16D	T87-16E		INTERNAL BUS		355
T87-16D	T87-16C		INTERNAL BUS		355
T87-16D	K52-2	A 886	27 VDC RELAY AND LAMP POWER LO	20	355
T87-16E	T87-16F		INTERNAL BUS		355
T87-16E	T87-16D		INTERNAL BUS		355
T87-16E	J7-BB	A 146	27 VDC RELAY AND LAMP PWR. LO	20	355
T87-16F	T87-16E		INTERNAL BUS		355
T87-16F	T87-17F	AA112	27 VDC RELAY AND LAMP POWER LO	20	355
T87-17A	T87-17B		INTERNAL BUS		355
T87-17A	T87-18A	AA113	27 VDC RELAY AND LAMP POWER LO	20	355
T87-17B	T87-17C		INTERNAL BUS		355
T87-17B	T87-17A		INTERNAL BUS		355
T87-17B	K61-2	A 924	27 VDC RELAY AND LAMP POWER LO	20	355
T87-17C	T87-17D		INTERNAL BUS		355
T87-17C	T87-17B		INTERNAL BUS		355
T87-17C	K63-2	A 935	27 VDC RELAY AND LAMP POWER LO	20	355
T87-17D	T87-17E		INTERNAL BUS		355

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 205 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) T87	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
T87-17D	T87-17C		INTERNAL BUS		355
T87-17D	K48-2	A 869	27 VDC RELAY AND LAMP POWER LO	20	355
T87-17E	T87-17F		INTERNAL BUS		355
T87-17E	T87-17D		INTERNAL BUS		355
T87-17E	K65-2	A 940	27 VDC RELAY AND LAMP POWER LO	20	355
T87-17F	T87-17E		INTERNAL BUS		355
T87-17F	T87-16F	AA112	27 VDC RELAY AND LAMP POWER LO	20	355
T87-18A	T87-18B		INTERNAL BUS		355
T87-18A	T87-17A	AA113	27 VDC RELAY AND LAMP POWER LO	20	355
T87-18B	T87-18C		INTERNAL BUS		355
T87-18B	T87-18A		INTERNAL BUS		355
T87-18B	K56-2	A 903	27 VDC RELAY AND LAMP POWER LO	20	355
T87-18C	T87-18D		INTERNAL BUS		355
T87-18C	T87-18B		INTERNAL BUS		355
T87-18C	K57-2	A 907	27 VDC RELAY AND LAMP POWER LO	20	355
T87-18D	T87-18E		INTERNAL BUS		355
T87-18D	T87-18C		INTERNAL BUS		355
T87-18D	K60-2	A 921	27 VDC RELAY AND LAMP POWER LO	20	355
T87-18E	T87-18F		INTERNAL BUS		355
T87-18E	T87-18D		INTERNAL BUS		355
T87-18E	K44-2	A 853	27 VDC RELAY AND LAMP POWER LO	20	355
T87-18F	T87-18E		INTERNAL BUS		355
T87-18F	T87-19F	AA114	27 VDC RELAY AND LAMP POWER LO	20	355
T87-19A	T87-19B		INTERNAL BUS		355
T87-19A	T87-20A	AA115	27 VDC RELAY AND LAMP POWER LO	20	355
T87-19B	T87-19C		INTERNAL BUS		355
T87-19B	T87-19A		INTERNAL BUS		355
T87-19B	K41-2	A 844	27 VDC RELAY AND LAMP POWER LO	20	355
T87-19C	T87-19D		INTERNAL BUS		355
T87-19C	T87-19B		INTERNAL BUS		355
T87-19C	K40-2	A 840	27 VDC RELAY AND LAMP POWER LO	20	355
T87-19D	T87-19E		INTERNAL BUS		355

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE-NONE	REV LTR C	SHEET 206 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB7	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB7-19D	TB7-19C		INTERNAL BUS		355
TB7-19D	K55-2	A 902	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19E	TB7-19F		INTERNAL BUS		355
TB7-19E	TB7-19D		INTERNAL BUS		355
TB7-19E	K54-2	A 898	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-19F	TB7-19E		INTERNAL BUS		355
TB7-19F	TB7-18F	AA114	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-20A	TB7-20B		INTERNAL BUS		355
TB7-20A	TB7-19A	AA115	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-20B	TB7-20C		INTERNAL BUS		355
TB7-20B	TB7-20A		INTERNAL BUS		355
TB7-20C	TB7-20D		INTERNAL BUS		355
TB7-20C	TB7-20B		INTERNAL BUS		355
TB7-20D	TB7-20E		INTERNAL BUS		355
TB7-20D	TB7-20C		INTERNAL BUS		355
TB7-20D	K22-2	A 784	27 VDC RELAY AND LAMP POWER LO	20	355
TB7-20E	TB7-20F		INTERNAL BUS		355
TB7-20E	TB7-20D		INTERNAL BUS		355
TB7-20F	TB7-20E		INTERNAL BUS		355
TB7-20F	K7-2	A 756	27 VDC RELAY AND LAMP POWER LO	20	355
	TB8 TERMINAL BOARD BUS IMU ZERO VDC (1900837)				
TB8-1	TB8-2		SOLID BUS-G AND N ZERO VDC		7
TB8-2	TB8-1		SOLID BUS-G AND N ZERO VDC		7
TB8-2	TB8-3		SOLID BUS-G AND N ZERO VDC		7
TB8-2	TB16-16	A 973	AGE ZERO VDC	12	7
TB8-3	TB8-2		SOLID BUS-G AND N ZERO VDC		7
TB8-3	TB8-4		SOLID BUS-G AND N ZERO VDC		7
TB8-4	TB8-3		SOLID BUS-G AND N ZERO VDC		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB8	TERMINAL BOARD BUS IMU ZERO VDC (1900837)				
TB8-4	TB8-5		SOLID BUS-G AND N ZERO VDC		7
TB8-5	TB8-4		SOLID BUS-G AND N ZERO VDC		7
TB8-5	TB8-6		SOLID BUS-G AND N ZERO VDC		7
TB8-5	J7-D*	A 129	28 VDC AGE LO	20	7
TB8-6	TB8-5		SOLID BUS-G AND N ZERO VDC		7
TB8-6	TB8-7		SOLID BUS-G AND N ZERO VDC		7
TB8-6	TB6-6C	A1105	6 V 400 CPS LAMP POWER LO	20	7
TB8-7	TB8-6		SOLID BUS-G AND N ZERO VDC		7
TB8-7	TB8-8		SOLID BUS-G AND N ZERO VDC		7
TB8-7	J6-G	A 115	28 VDC AGE POWER REMOTE SENSE LO	16	7
TB8-8	TB8-7		SOLID BUS-G AND N ZERO VDC		7
TB8-8	TB8-9		SOLID BUS-G AND N ZERO VDC		7
TB8-9	TB8-10		SOLID BUS-G AND N ZERO VDC		7
TB8-9	TB8-8		SOLID BUS-G AND N ZERO VDC		7
TB8-10	TB8-11		SOLID BUS-G AND N ZERO VDC		7
TB8-10	TB8-9		SOLID BUS-G AND N ZERO VDC		7
TB8-10	J6-D	A 114	28 VDC AGE POWER LO	8	7
TB8-11	TB8-12		SOLID BUS-G AND N ZERO VDC		7
TB8-11	TB8-10		SOLID BUS-G AND N ZERO VDC		7
TB8-12	TB8-13		SOLID BUS-G AND N ZERO VDC		7
TB8-12	TB8-11		SOLID BUS-G AND N ZERO VDC		7
TB8-12	TB10-2	A 974	AGE ZERO VDC	14	7
TB8-13	TB8-14		SOLID BUS-G AND N ZERO VDC		7
TB8-13	TB8-12		SOLID BUS-G AND N ZERO VDC		7
TB8-14	TB8-15		SOLID BUS-G AND N ZERO VDC		7
TB8-14	TB8-13		SOLID BUS-G AND N ZERO VDC		7
TB8-14	TB9-2	A 975	AGE ZERO VDC	12	7
TB8-15	TB8-16		SOLID BUS-G AND N ZERO VDC		7
TB8-15	TB8-14		SOLID BUS-G AND N ZERO VDC		7
TB8-15	J7-M	A1188	28 VDC AGE LO (REMOTE SENSE)	20	7
TB8-16	TB8-15		SOLID BUS-G AND N ZERO VDC		7
TB8-16	TB14-16	A 972	AGE ZERO VDC	12	7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	TB9 TERMINAL BOARD SOLID BUS (1900837)				
TB9-1	TB9-2		SOLID BUS-		7
TB9-2	TB9-1		SOLID BUS-		7
TB9-2	TB9-3		SOLID BUS-		7
TB9-2	TB8-14	A 975	AGE ZERO VDC	12	7
TB9-3	TB9-2		SOLID BUS-		7
TB9-3	TB9-4		SOLID BUS-		7
TB9-4	TB9-3		SOLID BUS-		7
TB9-4	TB9-5		SOLID BUS-		7
TB9-5	TB9-4		SOLID BUS-		7
TB9-5	TB9-6		SOLID BUS-		7
TB9-6	TB9-5		SOLID BUS-		7
TB9-6	TB9-7		SOLID BUS-		7
TB9-7	TB9-6		SOLID BUS-		7
TB9-7	TB9-8		SOLID BUS-		7
TB9-8	TB9-7		SOLID BUS-		7
TB9-8	TB9-9		SOLID BUS-		7
TB9-9	TB9-10		SOLID BUS-		7
TB9-9	TB9-8		SOLID BUS-		7
TB9-10	TB9-11		SOLID BUS-		7
TB9-10	TB9-9		SOLID BUS-		7
TB9-11	TB9-12		SOLID BUS-		7
TB9-11	TB9-10		SOLID BUS-		7
TB9-12	TB9-13		SOLID BUS-		7
TB9-12	TB9-11		SOLID BUS-		7
TB9-13	TB9-14		SOLID BUS-		7
TB9-13	TB9-12		SOLID BUS-		7
TB9-14	TB9-15		SOLID BUS-		7
TB9-14	TB9-13		SOLID BUS-		7
TB9-15	TB9-16		SOLID BUS-		7
TB9-15	TB9-14		SOLID BUS-		7
TB9-16	TB9-15		SOLID BUS-		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
	TB10 TERMINAL BOARD BUS AGC ZERO VDC (1900837)				
TB10-1	TB10-2		SOLID BUS-AGE ZERO VDC		7
TB10-2	TB10-1		SOLID BUS-AGE ZERO VDC		7
TB10-2	TB10-3		SOLID BUS-AGE ZERO VDC		7
TB10-2	TB8-12	A 974	AGE ZERO VDC	14	7
TB10-3	TB10-2		SOLID BUS-AGE ZERO VDC		7
TB10-3	TB10-4		SOLID BUS-AGE ZERO VDC		7
TB10-4	TB10-3		SOLID BUS-AGE ZERO VDC		7
TB10-4	TB10-5		SOLID BUS-AGE ZERO VDC		7
TB10-4	J40-V	A 628	0 VDC AGC	12	7
TB10-5	TB10-4		SOLID BUS-AGE ZERO VDC		7
TB10-5	TB10-6		SOLID BUS-AGE ZERO VDC		7
TB10-6	TB10-5		SOLID BUS-AGE ZERO VDC		7
TB10-6	TB10-7		SOLID BUS-AGE ZERO VDC		7
TB10-6	J46-V	A 725	0 VDC AGC	12	7
TB10-7	TB10-6		SOLID BUS-AGE ZERO VDC		7
TB10-7	TB10-8		SOLID BUS-AGE ZERO VDC		7
TB10-8	TB10-7		SOLID BUS-AGE ZERO VDC		7
TB10-8	TB10-9		SOLID BUS-AGE ZERO VDC		7
TB10-9	TB10-10		SOLID BUS-AGE ZERO VDC		7
TB10-9	TB10-8		SOLID BUS-AGE ZERO VDC		7
TB10-10	TB10-11		SOLID BUS-AGE ZERO VDC		7
TB10-10	TB10-9		SOLID BUS-AGE ZERO VDC		7
TB10-11	TB10-12		SOLID BUS-AGE ZERO VDC		7
TB10-11	TB10-10		SOLID BUS-AGE ZERO VDC		7
TB10-12	TB10-13		SOLID BUS-AGE ZERO VDC		7
TB10-12	TB10-11		SOLID BUS-AGE ZERO VDC		7
TB10-13	TB10-14		SOLID BUS-AGE ZERO VDC		7
TB10-13	TB10-12		SOLID BUS-AGE ZERO VDC		7
TB10-14	TB10-15		SOLID BUS-AGE ZERO VDC		7
TB10-14	TB10-13		SOLID BUS-AGE ZERO VDC		7
TB10-15	TB10-16		SOLID BUS-AGE ZERO VDC		7
TB10-15	TB10-14		SOLID BUS-AGE ZERO VDC		7

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-9E	TB11-9D		INTERNAL BUS		170
TB11-9E	TB11-9F		INTERNAL BUS		170
TB11-9E	K48-14	A 874R	MG 1 X SIN BAI (IMU) HI	24	170
TB11-9F	TB11-9E		INTERNAL BUS		170
TB11-10A	TB11-10B		INTERNAL BUS		172
TB11-10B	TB11-10C		INTERNAL BUS		172
TB11-10B	TB11-10A		INTERNAL BUS		172
TB11-10C	TB11-10D		INTERNAL BUS		172
TB11-10C	TB11-10B		INTERNAL BUS		172
TB11-10D	TB11-10E		INTERNAL BUS		172
TB11-10D	TB11-10C		INTERNAL BUS		172
TB11-10D	K63-11	A 936L	MG 1 X SIN BAI (IMU) LO	24	172
TB11-10E	TB11-10F		INTERNAL BUS		172
TB11-10E	TB11-10D		INTERNAL BUS		172
TB11-10E	K48-17	A 874L	MG 1 X SIN BAI (IMU) LO	24	172
TB11-10F	TB11-10E		INTERNAL BUS		172
TB11-11A	TB11-11B		INTERNAL BUS		165
TB11-11B	TB11-11C		INTERNAL BUS		165
TB11-11B	TB11-11A		INTERNAL BUS		165
TB11-11C	TB11-11D		INTERNAL BUS		165
TB11-11C	TB11-11B		INTERNAL BUS		165
TB11-11D	TB11-11E		INTERNAL BUS		165
TB11-11D	TB11-11C		INTERNAL BUS		165
TB11-11D	K63-20	A 937R	MG 1 X COS HI (BAI)	24	165
TB11-11E	TB11-11F		INTERNAL BUS		165
TB11-11E	TB11-11D		INTERNAL BUS		165
TB11-11E	K48-8	A 872R	MG 1 X COS HI (BAI)	24	165
TB11-11F	TB11-11E		INTERNAL BUS		165
TB11-12A	TB11-12B		INTERNAL BUS		168
TB11-12B	TB11-12C		INTERNAL BUS		168
TB11-12B	TB11-12A		INTERNAL BUS		168
TB11-12C	TB11-12D		INTERNAL BUS		168

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-12C	TB11-12B		INTERNAL BUS		168
TB11-12D	TB11-12E		INTERNAL BUS		168
TB11-12D	TB11-12C		INTERNAL BUS		168
TB11-12D	K63-17	A 937L	MG 1 X COS LO (BAI)	24	168
TB11-12E	TB11-12F		INTERNAL BUS		168
TB11-12E	TB11-12D		INTERNAL BUS		168
TB11-12E	K48-11	A 872L	MG 1 X COS LO (BAI)	24	168
TB11-12F	TB11-12E		INTERNAL BUS		168
TB11-13A	TB11-13B		INTERNAL BUS		182
TB11-13A	J4-M*	A 72R	COS AOG 1X S3 (HI)	24	182
TB11-13B	TB11-13C		INTERNAL BUS		182
TB11-13B	TB11-13A		INTERNAL BUS		182
TB11-13B	J5-W*	A 103R	COS AOG 1X S3 (HI)	24	182
TB11-13C	TB11-13D		INTERNAL BUS		182
TB11-13C	TB11-13B		INTERNAL BUS		182
TB11-13D	TB11-13E		INTERNAL BUS		182
TB11-13D	TB11-13C		INTERNAL BUS		182
TB11-13E	TB11-13F		INTERNAL BUS		182
TB11-13E	TB11-13D		INTERNAL BUS		182
TB11-13F	TB11-13E		INTERNAL BUS		182
TB11-13F	J22-Y*	A 322	IMU COS AOG 1X HI	24	182
TB11-14A	TB11-14B		INTERNAL BUS		184
TB11-14A	J4-N*	A 72L	COS AOG 1X S1 (LO)	24	184
TB11-14B	TB11-14C		INTERNAL BUS		184
TB11-14B	TB11-14A		INTERNAL BUS		184
TB11-14B	J5-X*	A 103L	COS AOG 1X S1 (LO)	24	184
TB11-14C	TB11-14D		INTERNAL BUS		184
TB11-14C	TB11-14B		INTERNAL BUS		184
TB11-14D	TB11-14E		INTERNAL BUS		184
TB11-14D	TB11-14C		INTERNAL BUS		184
TB11-14D	K67-16	A 949	OG IMU 1 X COS LO (BAI MON)	24	184
TB11-14E	TB11-14F		INTERNAL BUS		184

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-14E	TB11-14D		INTERNAL BUS		184
TB11-14E	K52-10	A 888	CDU COS AOG 1 X LO	24	184
TB11-14F	TB11-14E		INTERNAL BUS		184
TB11-15A	TB11-15B		INTERNAL BUS		139
TB11-15B	TB11-15C		INTERNAL BUS		139
TB11-15B	TB11-15A		INTERNAL BUS		139
TB11-15C	TB11-15D		INTERNAL BUS		139
TB11-15C	TB11-15B		INTERNAL BUS		139
TB11-15D	TB11-15E		INTERNAL BUS		139
TB11-15D	TB11-15C		INTERNAL BUS		139
TB11-15D	K44-8	A 856R	IG 1 X COS HI (BAI)	24	139
TB11-15E	TB11-15F		INTERNAL BUS		139
TB11-15E	TB11-15D		INTERNAL BUS		139
TB11-15E	K59-20	A 920R	IG 1 X COS HI (BAI)	24	139
TB11-15F	TB11-15E		INTERNAL BUS		139
TB11-16A	TB11-16B		INTERNAL BUS		141
TB11-16B	TB11-16C		INTERNAL BUS		141
TB11-16B	TB11-16A		INTERNAL BUS		141
TB11-16C	TB11-16D		INTERNAL BUS		141
TB11-16C	TB11-16B		INTERNAL BUS		141
TB11-16D	TB11-16E		INTERNAL BUS		141
TB11-16D	TB11-16C		INTERNAL BUS		141
TB11-16D	K44-11	A 856L	IG 1 X COS LO (BAI)	24	141
TB11-16E	TB11-16F		INTERNAL BUS		141
TB11-16E	TB11-16D		INTERNAL BUS		141
TB11-16E	K59-17	A 920L	IG 1 X COS LO (BAI)	24	141
TB11-16F	TB11-16E		INTERNAL BUS		141
TB11-17A	TB11-17B		INTERNAL BUS		143
TB11-17B	TB11-17C		INTERNAL BUS		143
TB11-17B	TB11-17A		INTERNAL BUS		143
TB11-17C	TB11-17D		INTERNAL BUS		143
TB11-17C	TB11-17B		INTERNAL BUS		143

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-17D	TB11-17E		INTERNAL BUS		143
TB11-17D	TB11-17C		INTERNAL BUS		143
TB11-17D	K44-14	A 858R	IG 1 X SIN HI (BAI)	24	143
TB11-17E	TB11-17F		INTERNAL BUS		143
TB11-17E	TB11-17D		INTERNAL BUS		143
TB11-17E	K59-14	A 919R	IG 1 X SIN HI (BAI)	24	143
TB11-17F	TB11-17E		INTERNAL BUS		143
TB11-18A	TB11-18B		INTERNAL BUS		145
TB11-18B	TB11-18C		INTERNAL BUS		145
TB11-18B	TB11-18A		INTERNAL BUS		145
TB11-18C	TB11-18D		INTERNAL BUS		145
TB11-18C	TB11-18B		INTERNAL BUS		145
TB11-18D	TB11-18E		INTERNAL BUS		145
TB11-18D	TB11-18C		INTERNAL BUS		145
TB11-18D	K44-17	A 858L	IG 1 X SIN LO (BAI)	24	145
TB11-18E	TB11-18F		INTERNAL BUS		145
TB11-18E	TB11-18D		INTERNAL BUS		145
TB11-18E	K59-11	A 919L	IG 1 X SIN LO (BAI)	24	145
TB11-18F	TB11-18E		INTERNAL BUS		145
TB11-19A	J5-L	A 81	GIMBAL LOCK SIGNAL HI	20	265
TB11-19B	TB11-19C		INTERNAL BUS		265
TB11-19B	TB11-19A		INTERNAL BUS		265
TB11-19B	J25-N*	A1125	MG LOCK INDICATION	20	265
TB11-19C	TB11-19D		INTERNAL BUS		265
TB11-19C	TB11-19B		INTERNAL BUS		265
TB11-19C	J34-F	A1126	GIMBAL LOCK SIGNAL	20	265
TB11-19D	TB11-19E		INTERNAL BUS		265
TB11-19D	TB11-19C		INTERNAL BUS		265
TB11-19E	TB11-19F		INTERNAL BUS		265
TB11-19E	TB11-19D		INTERNAL BUS		265
TB11-19F	TB11-19E		INTERNAL BUS		265

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB11	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB11-20A	TB11-20B		INTERNAL BUS		1
TB11-20A	K28-2	A 793	OPTICS 28 VDC HI	20	1
TB11-20B	TB11-20C		INTERNAL BUS		1
TB11-20B	TB11-20A		INTERNAL BUS		1
TB11-20B	K17-4	A 739	OPTICS 28 VDC HI	20	1
TB11-20C	TB11-20D		INTERNAL BUS		1
TB11-20C	TB11-20B		INTERNAL BUS		1
TB11-20C	E15	A1142	OPTICS 28 VDC HI	20	1
TB11-20D	TB11-20E		INTERNAL BUS		1
TB11-20D	TB11-20C		INTERNAL BUS		1
TB11-20E	TB11-20F		INTERNAL BUS		1
TB11-20E	TB11-20D		INTERNAL BUS		1
TB11-20F	TB11-20E		INTERNAL BUS		1
TB11-20D	TB12-17	A1201	+28VDC OPTICS (A2CR9 ANODE)	20	1
	TB12	A2 RELAY DIODE BOARD (1900831-011)			
TB12-1	TB7-15C	A 971	27 VDC RLP GROUND (A2CR1 ANODE)	20	355
TB12-1	TB12-3	A2AA1	27 VDC RLP GROUND (A2CR1 ANODE)	20	355
TB12-2	K29-4	A 799	K29 COIL (K404 MECH)-(A2CR1 CATHODE)	20	572
TB12-3	TB12-1	A2AA1	27 VDC RLP GROUND (A2CR2 ANODE)	20	355
TB12-3	TB12-5	A2AA2	27 VDC RLP GROUND (A2CR2 ANODE)	20	355
TB12-4	K18-4	A 770	K18 COIL (K403 MECH)-(A2CR2 CATHODE)	20	572
TB12-5	TB12-3	A2AA2	27 VDC RLP GROUND (A2CR3 ANODE)	20	355
TB12-5	TB12-7	A2AA3	27 VDC RLP GROUND (A2CR3 ANODE)	20	355
TB12-6			A2CR3 CATHODE - SPARE		
TB12-7	TB12-5	A2AA3	27 VDC RLP GROUND (A2CR4 ANODE)	20	355
TB12-7	TB12-9	A2AA4	27 VDC RLP GROUND (A2CR4 ANODE)	20	355
TB12-8	K20-4	A 776	K20 COIL (K407 MECH)-(A2CR4 CATHODE)	20	24
TB12-8	K26-1	A1160	K20 COIL (K407 MECH) CONTROL (A2CR4 CATHODE)	20	24
TB12-9	TB12-7	A2AA4	27 VDC RLP GROUND (A2CR5 ANODE)	20	355

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB12	A2 RELAY DIODE BOARD (1900831-011)				
TB12-9	TB12-11	A2AA5	27 VDC RLP GROUND (A2CR5 ANODE)	20	355
TB12-10			A2CR5 CATHODE - SPARE		
TB12-11	TB12-9	A2AA5	27 VDC RLP GROUND (A2CR6 ANODE)	20	355
TB12-11	TB12-13	A2AA6	27 VDC RLP GROUND (A2CR6 ANODE)	20	355
TB12-12	J1-FF	A 16	ENABLE TRUN CDU MOTOR (A2CR6 CATHODE)	20	13
TB12-12	K27-4	A 791	K27 COIL (K406 MECH)-(A2CR6 CATHODE)	20	13
TB12-13	TB12-11	A2AA6	27 VDC RLP GROUND (A2CR7 ANODE)	20	355
TB12-14	J1-EE	A 15	ENABLE SHAFT CDU MOTOR (A2CR7 CATHODE)	20	12
TB12-14	K28-4	A 795	K28 COIL (K405 MECH)-(A2CR7 CATHODE)	20	12
TB12-15	J1-V	A1163	SCT MDA DISABLE LO (A2CR8 ANODE)	20	20
TB12-15	K26-11	A1165	SCT MDA DISABLE LO (A2CR8 ANODE)	20	20
TB12-16	K26-4	A1164	SCT MDA DISABLE HI (A2CR8 CATHODE)	20	18
TB12-16	J1-U	A1162	SCT MDA DISABLE HI (A2CR8 CATHODE)	20	18
~~TB12-17~~	~~J11-AA~~	~~A 294~~	~~+28 VDC OPTICS (A2CR9 ANODE)~~ DELETED	~~20~~	~~03~~
~~TB12-17~~	~~J42-Ec~~	~~A1112~~	~~+28 VDC OPTICS HI (A2CR9 ANODE)~~ DELETED	~~20~~	~~03~~
TB12-18	TB12-20	A2AA9	+28 VDC STANDBY - OPTICS HI (A2CR9 CATHODE)	20	519
TB12-19	J11-R*	A 288	+28 VDC STANDBY (A2CR10 ANODE)	20	88
TB12-19	J25-Q*	A1111	28 VDC ISS STANDBY HI (A2CR10 ANODE)	20	88
TB12-20	J45-GG	A 713	+28 VDC MDV (A2CR10 CATHODE)	20	519
TB12-20	TB12-18	A2AA9	+28 VDC STANDBY - OPTICS HI (A2CR10 CATHODE)	20	519
TB12-21	K20-6	A1150	SIMULATED COSECANT RELAY LO (A2CR11 ANODE)	20	574
TB12-22	J1-AA	A 11	OPT TEST CSC RELAY LO (A2CR11 CATHODE)	24	8
TB12-22	K17-11	A 777	SIMULATED COSECANT RELAY LO (A2CR11 CATHODE)	20	8
TB12-23			A2CR12 ANODE - SPARE		
TB12-24			A2CR12 CATHODE - SPARE		
TB12-25			A2CR13 ANODE - SPARE		
TB12-26			A2CR13 CATHODE - SPARE		
TB12-27			A2CR14 ANODE - SPARE		
TB12-28			A2CR14 CATHODE - SPARE		
TB12-29			A2CR15 ANODE - SPARE		
TB12-30			A2CR15 CATHODE - SPARE		
TB12-31			A2CR16 ANODE - SPARE		
TB12-17	TB11-20D	A1201	+28 VDC OPTICS (A2CR9 ANODE)	20	1

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB12	A2 RELAY DIODE BOARD (1900831-011)				
TB12-32			A2CR16 CATHODE - SPARE		
TB12-33			A2CR17 ANODE - SPARE		
TB12-34			A2CR17 CATHODE - SPARE		
TB12-35			A2CR18 ANODE - SPARE		
TB12-36			A2CR18 CATHODE - SPARE		
TB12-37			A2CR19 ANODE - SPARE		
TB12-38			A2CR19 CATHODE - SPARE		
TB12-39	K17-11	A 766	27 VDC RLP LO (A2CR20 ANODE)	20	8
TB12-40	J43-P	A 661	OPTICS 28 VDC HI (FROM PSA)-(A2CR20 CATHODE)	20	1
TB12-40	K17-4	A 765	OPTICS 28 VDC HI (FROM PSA)-(A2CR20 CATHODE)	20	1
	TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)			
TB13-1A	TB13-1B		INTERNAL BUS		107
TB13-1B	TB13-1A		INTERNAL BUS		107
TB13-1B	TB13-1C		INTERNAL BUS		107
TB13-1B	J32-BB	A 492R	28V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
TB13-1C	TB13-1B		INTERNAL BUS		107
TB13-1C	TB13-1D		INTERNAL BUS		107
TB13-1C	J33-BB	A 513R	28V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
TB13-1D	TB13-1C		INTERNAL BUS		107
TB13-1D	TB13-1E		INTERNAL BUS		107
TB13-1D	J38-BB	A 598R	28V 800 CPS 5 PERCENT L-90 DEG IMU HI	24	107
TB13-1E	TB13-1D		INTERNAL BUS		107
TB13-1E	TB13-1F		INTERNAL BUS		107
TB13-1E	J25-M	A 383R	800 CPS 5 PERCENT CDU AND BLOWER HI	20	107
TB13-1F	TB13-1E		INTERNAL BUS		107
TB13-1F	J2-C	A 21R	800 CPS 28 V L-90 DEG HI IMU	24	107
TB13-2A	TB13-2B		INTERNAL BUS		109
TB13-2B	TB13-2A		INTERNAL BUS		109

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SCALE - NONE	REV LTR C	SHEET 221 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB13	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB13-2B	TB13-2C		INTERNAL BUS		109
TB13-2B	J32-CC	A 492L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
TB13-2C	TB13-2B		INTERNAL BUS		109
TB13-2C	TB13-2D		INTERNAL BUS		109
TB13-2C	J33-CC	A 513L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
TB13-2D	TB13-2C		INTERNAL BUS		109
TB13-2D	TB13-2E		INTERNAL BUS		109
TB13-2D	J38-CC	A 598L	28 V 800 CPS 5 PERCENT L-90 DEG IMU LO	24	109
TB13-2E	TB13-2D		INTERNAL BUS		109
TB13-2E	TB13-2F		INTERNAL BUS		109
TB13-2E	J25-N	A 383L	800 CPS 5 PERCENT CDU AND BLOWER LO	20	109
TB13-2F	TB13-2E		INTERNAL BUS		109
TB13-2F	J2-D	A 21L	800 CPS 28 V L-90 DEG LO IMU	24	109
TB13-3A	TB13-3B		INTERNAL BUS		356
TB13-3A	J7-K*	A 136	27 VDC RLP LO OSS ONLY	20	356
TB13-3B	TB13-3A		INTERNAL BUS		356
TB13-3B	TB13-3C		INTERNAL BUS		356
TB13-3B	J30-M	A1190	27 VDC RLP LO OSS ONLY	20	356
TB13-3C	TB13-3B		INTERNAL BUS		356
TB13-3C	TB13-3D		INTERNAL BUS		356
TB13-3C	J35-Y*	A 560	27 VDC RLP LO OSS ONLY	24	356
TB13-3D	TB13-3C		INTERNAL BUS		356
TB13-3D	TB13-3E		INTERNAL BUS		356
TB13-3E	TB13-3D		INTERNAL BUS		356
TB13-3E	TB13-3F		INTERNAL BUS		356
TB13-3F	TB13-3E		INTERNAL BUS		356
TB13-4A	TB13-4B		INTERNAL BUS		202
TB13-4A	J23-H*	A 346R	SCT 1/2 X SHAFT RSVR P4	24	202
TB13-4B	TB13-4A		INTERNAL BUS		202
TB13-4B	TB13-4C		INTERNAL BUS		202
TB13-4B	J24-W*	A 369R	SHAFT CDU 1/2X COSINE LO P4	24	202
TB13-4C	TB13-4B		INTERNAL BUS		202

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902281
SCALE - NONE	REV LTR C	SHEET 222 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
TB17 TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)					
TB17-1A	TB17-1B		INTERNAL BUS		290
TB17-1A	J38-G*	A 591R	IG 1X ERROR HI	24	290
TB17-1B	TB17-1A		INTERNAL BUS		290
TB17-1B	TB17-1C		INTERNAL BUS		290
TB17-1B	J45-BB	A 711R	IG CDU 1X ERROR SIG (HI)	24	290
TB17-1C	TB17-1B		INTERNAL BUS		290
TB17-1C	TB17-1D		INTERNAL BUS		290
TB17-1C	J5-GG	A 108R	IG CDU 1X ERROR SIG S2 (HI)	24	290
TB17-1D	TB17-1C		INTERNAL BUS		290
TB17-1D	TB17-1E		INTERNAL BUS		290
TB17-1D	K43-17	A 850R	IG CDU 1 X ERROR HI	24	290
TB17-1E	TB17-1D		INTERNAL BUS		290
TB17-1E	TB17-1F		INTERNAL BUS		290
TB17-1F	TB17-1E		INTERNAL BUS		290
TB17-2A	TB17-2B		INTERNAL BUS		291
TB17-2A	J38-H*	A 591L	IG 1X ERROR LO	24	291
TB17-2B	TB17-2A		INTERNAL BUS		291
TB17-2B	TB17-2C		INTERNAL BUS		291
TB17-2B	J45-CC	A 711L	IG CDU ERROR SIG RET	24	291
TB17-2C	TB17-2B		INTERNAL BUS		291
TB17-2C	TB17-2D		INTERNAL BUS		291
TB17-2C	J5-HH	A 108L	IG CDU ERROR SIG RET	24	291
TB17-2D	TB17-2C		INTERNAL BUS		291
TB17-2D	TB17-2E		INTERNAL BUS		291
TB17-2D	K43-14	A 850L	IG CDU 1 X ERROR LO	24	291
TB17-2E	TB17-2D		INTERNAL BUS		291
TB17-2E	TB17-2F		INTERNAL BUS		291
TB17-2F	TB17-2E		INTERNAL BUS		291
TB17-3A	TB17-3B		INTERNAL BUS		299
TB17-3A	J33-G*	A 506R	MG 1X ERROR HI	24	299
TB17-3B	TB17-3A		INTERNAL BUS		299
TB17-3B	TB17-3C		INTERNAL BUS		299

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 235 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17 TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)					
TB17-3B	J45-DD	A 712R	INPUT YAW (MG CDU 1X ERROR) HI	24	299
TB17-3C	TB17-3B		INTERNAL BUS		299
TB17-3C	TB17-3D		INTERNAL BUS		299
TB17-3C	J5-AA	A 105R	MG CDU 1X ERROR SIG (HI)	24	299
TB17-3D	TB17-3C		INTERNAL BUS		299
TB17-3D	TB17-3E		INTERNAL BUS		299
TB17-3D	K47-17	A 866R	MG CDU 1 X ERROR HI	24	299
TB17-3E	TB17-3D		INTERNAL BUS		299
TB17-3E	TB17-3F		INTERNAL BUS		299
TB17-3F	TB17-3E		INTERNAL BUS		299
TB17-4A	TB17-4B		INTERNAL BUS		300
TB17-4A	J33-H*	A 506L	MG 1X ERROR LO	24	300
TB17-4B	TB17-4A		INTERNAL BUS		300
TB17-4B	TB17-4C		INTERNAL BUS		300
TB17-4B	J45-EE	A 712L	ATTITUDE ERROR (MG CDU 1X ERROR) LO	24	300
TB17-4C	TB17-4B		INTERNAL BUS		300
TB17-4C	TB17-4D		INTERNAL BUS		300
TB17-4C	J5-BB	A 105L	MG CDU ERROR SIG RET	24	300
TB17-4D	TB17-4C		INTERNAL BUS		300
TB17-4D	TB17-4E		INTERNAL BUS		300
TB17-4D	K47-14	A 866L	MG CDU 1 X ERROR LO	24	300
TB17-4E	TB17-4D		INTERNAL BUS		300
TB17-4E	TB17-4F		INTERNAL BUS		300
TB17-4F	TB17-4E		INTERNAL BUS		300
TB17-5A	TB17-5B		INTERNAL BUS		278
TB17-5A	J5-U*	A 102R	OG CDU 1X ERROR SIG (HI)	24	278
TB17-5B	TB17-5A		INTERNAL BUS		278
TB17-5B	TB17-5C		INTERNAL BUS		278
TB17-5B	J45-W*	A 709R	OG CDU 1X ERROR SIG (HI)	24	278
TB17-5C	TB17-5B		INTERNAL BUS		278
TB17-5C	TB17-5D		INTERNAL BUS		278
TB17-5C	J32-G*	A 485R	OG 1X ERROR HI	24	278

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17 TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)					
TB17-5D	TB17-5C		INTERNAL BUS		278
TB17-5D	TB17-5E		INTERNAL BUS		278
TB17-5D	K50-17	A 881R	OG CDU 1 X ERROR SIGNAL HI	24	278
TB17-5E	TB17-5D		INTERNAL BUS		278
TB17-5E	TB17-5F		INTERNAL BUS		278
TB17-5F	TB17-5E		INTERNAL BUS		278
TB17-6A	TB17-6B		INTERNAL BUS		280
TB17-6A	J5-V*	A 102L	OG CDU ERROR SIG RET	24	280
TB17-6B	TB17-6A		INTERNAL BUS		260
TB17-6B	TB17-6C		INTERNAL BUS		280
TB17-6B	J45-X*	A 709L	OG CDU ERROR SIG RET	24	280
TB17-6C	TB17-6B		INTERNAL BUS		280
TB17-6C	TB17-6D		INTERNAL BUS		280
TB17-6C	J32-H*	A 485L	OG 1X ERROR LO	24	280
TB17-6D	TB17-6C		INTERNAL BUS		280
TB17-6D	TB17-6E		INTERNAL BUS		280
TB17-6D	K50-14	A 881L	OG CDU 1 X ERROR SIGNAL LO	24	280
TB17-6E	TB17-6D		INTERNAL BUS		280
TB17-6E	TB17-6F		INTERNAL BUS		280
TB17-6F	TB17-6E		INTERNAL BUS		280
TB17-7A	TB17-7B		INTERNAL BUS		611
TB17-7B	TB17-7A		INTERNAL BUS		611
TB17-7B	TB17-7C		INTERNAL BUS		611
TB17-7C	TB17-7B		INTERNAL BUS		611
TB17-7C	TB17-7D		INTERNAL BUS		611
TB17-7D	TB17-7C		INTERNAL BUS		611
TB17-7D	TB17-7E		INTERNAL BUS		611
TB17-7E	TB17-7D		INTERNAL BUS		611
TB17-7E	TB17-7F		INTERNAL BUS		611
TB17-7F	TB17-7E		INTERNAL BUS		611
TB17-8A	TB17-8B		INTERNAL BUS		315
TB17-8A	J27-S	A 424	CONDITION LAMP TEST	24	315

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 237 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17 TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)					
TB17-8B	TB17-8A		INTERNAL BUS		315
TB17-8B	TB17-8C		INTERNAL BUS		315
TB17-8B	J39-X	A 608	CONDITION LAMP TEST	24	315
TB17-8C	TB17-8B		INTERNAL BUS		315
TB17-8C	TB17-8D		INTERNAL BUS		315
TB17-8C	J44-B	A 677	CONDITION LAMP TEST 28 VDC	24	315
TB17-8D	TB17-8C		INTERNAL BUS		315
TB17-8D	TB17-8E		INTERNAL BUS		315
TB17-8E	TB17-8D		INTERNAL BUS		315
TB17-8E	TB17-8F		INTERNAL BUS		315
TB17-8F	TB17-8E		INTERNAL BUS		315
TB17-9A	TB17-9B		INTERNAL BUS		135
TB17-9A	J7-T*	A 139R	400 CPS 115V HI	20	135
TB17-9B	TB17-9A		INTERNAL BUS		135
TB17-9B	TB17-9C		INTERNAL BUS		135
TB17-9B	J34-V	A 524L	115 VOLT 400 CPS HI	20	135
TB17-9C	TB17-9B		INTERNAL BUS		135
TB17-9C	TB17-9D		INTERNAL BUS		135
TB17-9C	J40-D*	A 630R	AGE VIEWER AND LAMP POWER 400 CPS HI	20	135
TB17-9D	TB17-9C		INTERNAL BUS		135
TB17-9D	TB17-9E		INTERNAL BUS		135
TB17-9D	J21-M	A 268R	115V 400 CPS HI	20	135
TB17-9E	TB17-9D		INTERNAL BUS		135
TB17-9E	TB17-9F		INTERNAL BUS		135
TB17-9F	TB17-9E		INTERNAL BUS		135
TB17-10A	TB17-10B		INTERNAL BUS		136
TB17-10A	J7-U*	A 139L	400 CPS 115 V LO	20	136
TB17-10B	TB17-10C		INTERNAL BUS		136
TB17-10B	TB17-10A		INTERNAL BUS		136
TB17-10B	J34-U	A 524R	115 VOLT 400 CPS LO	20	136
TB17-10C	TB17-10D		INTERNAL BUS		136
TB17-10C	TB17-10B		INTERNAL BUS		136

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902281 | SCALE-NONE | REV LTR C | SHEET 238 OF 245

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-10C	J40-E*	A 630L	AGE VIEWER AND LAMP POWER 400 CPS LO	20	136
TB17-10D	TB17-10E		INTERNAL BUS		136
TB17-10D	TB17-10C		INTERNAL BUS		136
TB17-10D	J21-N	A 268L	115V 400 CPS LO	20	136
TB17-10E	TB17-10F		INTERNAL BUS		136
TB17-10E	TB17-10D		INTERNAL BUS		136
TB17-10F	TB17-10E		INTERNAL BUS		136
TB17-11A	TB17-11B		INTERNAL BUS		43
TB17-11A	J34-L	A1157R	6 VOLT 400 CPS LAMP POWER HI	20	43
TB17-11B	TB17-11C		INTERNAL BUS		43
TB17-11B	TB17-11A		INTERNAL BUS		43
TB17-11C	TB17-11D		INTERNAL BUS		43
TB17-11C	TB17-11B		INTERNAL BUS		43
TB17-11D	TB17-11E		INTERNAL BUS		43
TB17-11D	TB17-11C		INTERNAL BUS		43
TB17-11E	TB17-11F		INTERNAL BUS		43
TB17-11E	TB17-11D		INTERNAL BUS		43
TB17-11F	TB17-11E		INTERNAL BUS		43
TB17-11F	J10-JJ	A1156R	400 CPS 6 V HI	20	43
TB17-12A	TB17-12B		INTERNAL BUS		7
TB17-12A	J34-N	A1157L	6 VOLT 400 CPS LAMP POWER LO	20	7
TB17-12B	TB17-12C		INTERNAL BUS		7
TB17-12B	TB17-12A		INTERNAL BUS		7
TB17-12B	J34-R	A 523L	5.5 VOLT AT 6.75 AMP 400 CPS LO	22	7
TB17-12C	TB17-12D		INTERNAL BUS		7
TB17-12C	TB17-12B		INTERNAL BUS		7
TB17-12C	K8-8	A1155W	5.5 VOLT AT 6.75 AMP 400 CPS LO	20	7
TB17-12D	TB17-12E		INTERNAL BUS		7
TB17-12D	TB17-12C		INTERNAL BUS		7
TB17-12D	J10-HH	A1124	400 CPS 6 V LO	20	7
TB17-12E	TB17-12F		INTERNAL BUS		7
TB17-12E	TB17-12D		INTERNAL BUS		7

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-12E	J34-P	A 523R	6 VOLT 400 CPS LAMP POWER LOW	22	7
TB17-12F	TB17-12E		INTERNAL BUS		7
TB17-12F	J10-KK	A1156L	400 CPS 6V LO	20	7
TB17-13A	TB17-13B		INTERNAL BUS		363
TB17-13A	J31-I*	A 463R	TRUNNION CDU 1/2X SIN HI P2	24	363
TB17-13B	TB17-13C		INTERNAL BUS		363
TB17-13B	TB17-13A		INTERNAL BUS		363
TB17-13B	J35-J*	A 83R	TRUNNION CDU 1/2X SIN HI P2	24	363
TB17-13C	TB17-13D		INTERNAL BUS		363
TB17-13C	TB17-13B		INTERNAL BUS		363
TB17-13D	TB17-13E		INTERNAL BUS		363
TB17-13D	TB17-13C		INTERNAL BUS		363
TB17-13E	TB17-13F		INTERNAL BUS		363
TB17-13E	TB17-13D		INTERNAL BUS		363
TB17-13F	TB17-13E		INTERNAL BUS		363
TB17-14A	TB17-14B		INTERNAL BUS		364
TB17-14A	J31-J*	A 463L	TRUNNION CDU 1/2X SIN LO P3	24	364
TB17-14B	TB17-14C		INTERNAL BUS		364
TB17-14B	TB17-14A		INTERNAL BUS		364
TB17-14B	J35-K*	A 83L	TRUNNION CDU 1/2X SIN LO P3	24	364
TB17-14C	TB17-14D		INTERNAL BUS		364
TB17-14C	TB17-14B		INTERNAL BUS		364
TB17-14C	J31-K*	A 271	TRUNNION CDU 1/2 X SIN LO	24	364
TB17-14D	TB17-14E		INTERNAL BUS		364
TB17-14D	TB17-14C		INTERNAL BUS		364
TB17-14E	TB17-14F		INTERNAL BUS		364
TB17-14E	TB17-14D		INTERNAL BUS		364
TB17-14F	TB17-14E		INTERNAL BUS		364
TB17-15A	TB17-15B		INTERNAL BUS		359
TB17-15A	J35-N	A 554R	25.6 KC OPTICS HI	24	359
TB17-15B	TB17-15C		INTERNAL BUS		359
TB17-15B	TB17-15A		INTERNAL BUS		359

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-15C	TB17-15D		INTERNAL BUS		359
TB17-15C	TB17-15B		INTERNAL BUS		359
TB17-15C	J31-CC	A 472R	25.6 KC ENCODER EXCITATION HI	24	359
TB17-15D	TB17-15E		INTERNAL BUS		359
TB17-15D	TB17-15C		INTERNAL BUS		359
TB17-15D	J37-Y*	A 580R	25.6 KC ENCODER EXCITATION HI	24	359
TB17-15E	TB17-15F		INTERNAL BUS		359
TB17-15E	TB17-15D		INTERNAL BUS		359
TB17-15F	TB17-15E		INTERNAL BUS		359
TB17-16A	TB17-16B		INTERNAL BUS		361
TB17-16A	J35-P	A 554L	25.6 KC OPTICS LO	24	361
TB17-16B	TB17-16C		INTERNAL BUS		361
TB17-16B	TB17-16A		INTERNAL BUS		361
TB17-16C	TB17-16D		INTERNAL BUS		361
TB17-16C	TB17-16B		INTERNAL BUS		361
TB17-16C	J31-DD	A 472L	25.6 KC ENCODER EXCITATION LO	24	361
TB17-16D	TB17-16E		INTERNAL BUS		361
TB17-16D	TB17-16C		INTERNAL BUS		361
TB17-16D	J37-Z*	A 580L	25.6 KC ENCODER EXCITATION LO	24	361
TB17-16E	TB17-16F		INTERNAL BUS		361
TB17-16E	TB17-16D		INTERNAL BUS		361
TB17-16F	TB17-16E		INTERNAL BUS		361
TB17-17A	TB17-17B		INTERNAL BUS		230
TB17-17A	J24-H*	A 363L	TRUNNION CDU 1/4X SINE LO	24	230
TB17-17B	TB17-17C		INTERNAL BUS		230
TB17-17B	TB17-17A		INTERNAL BUS		230
TB17-17B	J31-F*	A 461L	TRUNNION CDU 1/4X SIN LO	24	230
TB17-17C	TB17-17D		INTERNAL BUS		230
TB17-17C	TB17-17B		INTERNAL BUS		230
TB17-17C	J42-U*	A 688L	TRUNNION CDU 1/4 X SIN LO	24	230
TB17-17D	TB17-17E		INTERNAL BUS		230
TB17-17D	TB17-17C		INTERNAL BUS		230

FROM	TO	LEAD NO	CIRCUIT FUNCTION	AWG	NET. NO.
(CONT.) TB17	TERMINAL BOARD - 6 POSITION BUS - 20 ROWS (1015962-003)				
TB17-17E	TB17-17F		INTERNAL BUS		230
TB17-17E	TB17-17D		INTERNAL BUS		230
TB17-17F	TB17-17E		INTERNAL BUS		230
TB17-18A	TB17-18B		INTERNAL BUS		228
TB17-18A	J24-G*	A 363R	TRUNNION CDU 1/4X SINE HI	24	228
TB17-18B	TB17-18C		INTERNAL BUS		228
TB17-18B	TB17-18A		INTERNAL BUS		228
TB17-18B	J31-E*	A 461R	TRUNNION CDU 1/4X SIN HI	24	228
TB17-18C	TB17-18D		INTERNAL BUS		228
TB17-18C	TB17-18B		INTERNAL BUS		228
TB17-18C	J42-T*	A 688R	TRUNNION CDU 1/4 X SIN HI	24	228
TB17-18D	TB17-18E		INTERNAL BUS		228
TB17-18D	TB17-18C		INTERNAL BUS		228
TB17-18E	TB17-18F		INTERNAL BUS		228
TB17-18E	TB17-18D		INTERNAL BUS		228
TB17-18F	TB17-18E		INTERNAL BUS		228
TB17-19A	TB17-19B		INTERNAL BUS		271
TB17-19A	J38-Y*	A 597R	25.6 KC ENCODER EXCITATION LO	24	271
TB17-19B	TB17-19C		INTERNAL BUS		271
TB17-19B	TB17-19A		INTERNAL BUS		271
TB17-19B	J32-Y*	A 491R	25.6 KC ENCODER EXCITATION LO	24	271
TB17-19C	TB17-19D		INTERNAL BUS		271
TB17-19C	TB17-19B		INTERNAL BUS		271
TB17-19C	J33-Y*	A 512R	25.6 KC ENCODER EXCITATION LO	24	271
TB17-19D	TB17-19E		INTERNAL BUS		271
TB17-19D	TB17-19C		INTERNAL BUS		271
TB17-19D	J25-W	A 386L	2.5 VOLT 25.6 KC LO	24	271
TB17-19E	TB17-19F		INTERNAL BUS		271
TB17-19E	TB17-19D		INTERNAL BUS		271
TB17-19F	TB17-19E		INTERNAL BUS		271
TB17-20A	TB17-20B		INTERNAL BUS		270
TB17-20A	J38-Z*	A 597L	25.6 KC ENCODER EXCITATION HI	24	270

APPLICATION		REVISIONS 17838			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
	1901959-011	B	UPGRADED TO CLASS "A" PER TORR	22 MAR 65	W.H.

R.	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET	4	5	6	7	8	9	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
REV STATUS OF SHEET	REV SHEET													B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9	B 10	B 11	B 12	B 13

Chas Cutter
15 MAR. 65

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Frank R. Walker 4 FEB 65
CHECKED M. Manning DATE 11 MAR 65
APPROVAL L. Farrow K MAR 65
APPROVAL J. M. Walker 3-25-65
NASA APPROVAL [illegible] MAR 26 1965
MIT APPROVAL [illegible] MAR 25 1965
CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A" GSE JUNCTION BOX

CODE IDENT NO. | SIZE A | 1902282 | REV B

SCALE NONE | SHEET 1 OF 199

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
40	B	76	B	112	B	148	B	184	B						
41	B	77	B	113	B	149	B	185	B						
42	B	78	B	114	B	150	B	186	B						
43	B	79	B	115	B	151	B	187	B						
44	B	80	B	116	B	152	B	188	B						
45	B	81	B	117	B	153	B	189	B						
46	B	82	B	118	B	154	B	190	B						
47	B	83	B	119	B	155	B	191	B						
48	B	84	B	120	B	156	B	192	B						
49	B	85	B	121	B	157	B	193	B						
50	B	86	B	122	B	158	B	194	B						
51	B	87	B	123	B	159	B	195	B						
52	B	88	B	124	B	160	B	196	B						
53	B	89	B	125	B	161	B	197	B						
54	B	90	B	126	B	162	B	198	B						
55	B	91	B	127	B	163	B	199	B						
56	B	92	B	128	B	164	B								
57	B	93	B	129	B	165	B								
58	B	94	B	130	B	166	B								
59	B	95	B	131	B	167	B								
60	B	96	B	132	B	168	B								
61	B	97	B	133	B	169	B								
62	B	98	B	134	B	170	B								
63	B	99	B	135	B	171	B								
64	B	100	B	136	B	172	B								
65	B	101	B	137	B	173	B								
66	B	102	B	138	B	174	B								
67	B	103	B	139	B	175	B								
68	B	104	B	140	B	176	B								
69	B	105	B	141	B	177	B								
70	B	106	B	142	B	178	B								
71	B	107	B	143	B	179	B								
72	B	108	B	144	B	180	B								
73	B	109	B	145	B	181	B								
74	B	110	B	146	B	182	B								
75	B	111	B	147	B	183	B								

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION B

NASA DRAWING NO 1902282

SHEET 2 OF 199

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
154	J25	30
155	E36	35, 37
156	E37	36, 38
157	E38	35, 37
158	J22	25
159	J26	19
160	E46	35, 37
161	E47	35, 37
161A	E45	35, 37
162	E89	36, 38
163	E90	36, 38
164	E49	35, 37
165	J23	29
167	E48	36, 38
168	J27	26
169	E40	35, 37
170	E41	36, 38
171	E42	36, 38
172	E93	36, 38
173	J24	20
179	E68	35, 37
181	E69	61, 62

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
234	E71	36, 38
235	E72	36, 38
236	E73	36, 38
237	E74	36, 38
238	E75	36, 38
239	E78	36, 38
240	E76	36, 38
259	E77	35, 37
263	E87	35, 37
267	J46	34
268	J45	71
269	E67	35, 37
270	E88	36, 38
271	E61	35, 37
272	E82	35, 37
273	E66	36, 38
274	J44	32
275	J43	85
276	E65	36, 38
277	E64	35, 37
278	E63	36, 38
279	J42	30

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 3 OF 199

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
1	J1	71
2	E22	36, 38
3	E21	36, 38
4	E23	36, 38
5	J2	18
6	E24	35, 37
7	E25	35, 37
8	J3	19
9	E26	36, 38
10	E27	36, 38
11	E31	36, 38
12	J4	20
13	E30	36, 38
14	E28	36, 38
15	E29	36, 38
16	J5	21
17	J6	22
20	J7	23
21	E91	35, 37
22	E20	36, 38
23	E79	36, 38
24	E80	36, 38

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
25	J8	24
26	J9	25
27	E32	36, 38
28	E33	36, 38
29	J10	26
30	E35	35, 37
31	E34	36, 38
32	J11	27
112	P10	78
113	P11	79
114	P6	76
115	P8	80
116	P9	77
117	P4	75
118	P1	73
119	P2	74
120	P3	44
148	E92	35, 37
149	J21	28
151	E39	35, 37
152	E43	35, 37
153	E44	35, 37

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 4 OF 199

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
280	J41	20
281	J47	51
290	J40	33
291	J39	29
292	E62	36, 38
293	J38	26
294	E60	36, 38
295	J37	21
296	E59	35, 37
297	E58	36, 38
298	J36	26
299	E57	36, 38
300	J35	25
301	J34	24
302	E56	36, 38
303	E94	36, 38
304	J33	20
305	E54	36, 38
306	E55	36, 38
307	J32	19
308	E52	36, 38
309	E53	35, 37

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
310	E81	36, 38
311	J31	27
312	E50	36, 38
313	E51	35, 37
314	J30	31

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 5 OF 199

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIG. 1 IS FIGURE 4 OF ND1002206 FIG. 2 IS FIGURE 7 OF ND1002032 FIG. 3 IS FIGURE 5 OF ND1002206
2	ASSEMBLE PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
6	IDENTIFY USING DRAWING NO. .12 INCHES HIGH CHARACTERS BLACK, PER ND1002019
7	IDENTIFY BY CONNECTOR NUMBER, P1, P2, P3, P4, P6, P8, P9, P10, AND P11 AS REQUIRED. .12 INCHES HIGH, CHARACTERS BLACK
8	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
9	MARK SLEEVING ON SHIELD TERMINATIONS OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019
10	LACE HARNESS USING ITEM 81
11	LAST TERMINATION NUMBER IS 318
12	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 82 AND 83.
13	TAPE HARNESS USING ITEM 91 AT POINTS WHERE ABRASION MAY OCCUR.
14	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 6 OF 199

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
16	GRID MODULE IS 1 INCH.
17	UNLESS OTHERWISE SPECIFIED --- FEATURE CENTERLINES ARE LOCATED WITHIN + OR - .25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - .12 INCH.
18	FASTEN MARKER SECURELY WITH ITEM 81. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
19	THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER

MIL 2064 4-63

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MIL 2064 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902282-001	WIRE ND1002181 TYPE 1 CLASS 1 24AWG WHT 1297 FT 4 IN. TOTAL LENGTH
2	1	1902282-002	WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT 3371 FEET TOTAL LENGTH
3	1	1902282-003	WIRE ND1002181 TYPE 1 CLASS 1 20AWG WHT 2846 FT. 6 IN. TOTAL LENGTH
4	1	1902282-004	WIRE ND1002181 TYPE 1 CLASS 1 16AWG WHT 324 FT 7 INCHES TOTAL LENGTH
5	1	1902282-005	WIRE ND1002181 TYPE 1 CLASS 1 14AWG WHT 112 FT TOTAL LENGTH
6	1	1902282-006	WIRE ND1002181 TYPE 1 CLASS 1 12AWG WHT 242 FT 7 INCHES TOTAL LENGTH
7	1	1902282-007	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 24AWG WHT 410 FT 9 IN. TOTAL LENGTH
8	1	1902282-008	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 22AWG WHT 41 FT 9 INCHES TOTAL LENGTH
9	1	1902282-009	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 20AWG WHT 68 FT 0.0 IN. TOTAL LENGTH
10	1	1902282-010	WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 24AWG (WHT-BLUE, WHT-RED) 2141 FT 6 IN. TOT. LG
11	1	1902282-011	WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 22AWG (WHT-BLUE, WHT-RED) 239 FT 2.0 IN. TOTAL LENGTH
12	1	1902282-012	WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 20AWG (WHT-BLUE, WHT-RED) 169 FT 7.0 IN. TOTAL LENGTH

MIL 2064 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
14	1	1902282-014	WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 24AWG (WHT-BLUE, WHT-RED, WHT-YEL) 227 FT TOTAL LENGTH
15	1	1902282-015	WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 22AWG (WHT-BLUE, WHT-RED, WHT-YEL) 36 FT 6 IN. TOTAL LENGTH
16	1	1902282-016	WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 20AWG (WHT-BLUE, WHT-RED, WHT-YEL) 54 FT 6 IN. TOT LG
17	1	1902282-017	WIRE ND1002181 TYPE 1 CLASS 1 8AWG WHT 16 FT TOTAL LENGTH
18	1	MS3127E22-55P	(1897053-550) CONNECTOR-RECEPTACLE, ELECTRICAL
19	3	MS3127E24-61SX	(1897056-612) CONNECTOR-RECEPTACLE ELECTRICAL
20	4	MS3127E24-61S	(1897056-610) CONNECTOR-RECEPTACLE, ELECTRICAL
21	2	MS3127E24-61SY	(1897056-613) CONNECTOR-RECEPTACLE ELECTRICAL
22	1	MS3102E28-10P	(1897108-100) CONNECTOR-RECEPTACLE, ELECTRICAL
23	1	MS3127E22-55PX	(1897053-552) CONNECTOR-RECEPTACLE ELECTRICAL
24	2	MS3127E22-55S	(1897054-550) CONNECTOR-RECEPTACLE, ELECTRICAL
25	3	MS3127E24-61P	(1897055-610) CONNECTOR-RECEPTACLE, ELECTRICAL
26	4	MS3127E24-61SW	(1897056-611) CONNECTOR-RECEPTACLE ELECTRICAL
27	2	MS3127E24-61SZ	(1897056-614) CONNECTOR-RECEPTACLE ELECTRICAL
28	1	MS3102A28-20S	(1896853-200) CONNECTOR-RECEPTACLE, ELECTRICAL

MIL 2064 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	29	2	MS3127E22-55SX	(1897054-552) CONNECTOR-RECEPTACLE ELECTRICAL
	30	2	MS3127E24-61PW	(1897055-611) CONNECTOR-RECEPTACLE ELECTRICAL
	31	1	MS3102A28-20SW	(1896853-201) CONNECTOR-RECEPTACLE ELECTRICAL
	32	1	MS3127E22-55SW	(1897054-551) CONNECTOR-RECEPTACLE ELECTRICAL
	33	1	MS3102A36-9S	(1896854-090) CONNECTOR-RECEPTACLE, ELECTRICAL
	34	1	MS3102A36-9SW	(1896854-091) CONNECTOR-RECEPTACLE, ELECTRICAL
15	35	24	1016006-002	SPLICE REDUCER
15	36	45	1016006-003	SPLICE REDUCER
15	37	24	1010490-258	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	38	45	1010490-256	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	39	13	1015902- 3	TERMINAL-LUG
15	40	45	1015902- 8	TERMINAL-LUG
15	41	38	1015902- 12	TERMINAL-LUG
15	42	208	1015966-001	TERMINAL-TIP, CONTACT
15	43	106	1015966-003	TERMINAL-TIP, CONTACT
15	44	1	1016059-102	CONNECTOR
15	45	9	1015902- 49	TERMINAL-LUG
15	46	58	1015864-225	INSULATION-SLEEVING, ELECTRICAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 11 OF 199

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
15	47	92	1015864-227	INSULATION-SLEEVING, ELECTRICAL
15	48	150	1015864-165	INSULATION-SLEEVING, ELECTRICAL
15	49	289	1015864-167	INSULATION-SLEEVING, ELECTRICAL
15	50	365	1010490-196	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	51	1	MS3127E14-19S	(1897116-190) CONNECTOR-RECEPTACLE ELECTRICAL
15	52	348	1010490-198	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	53	66	1010490-200	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	54	52	1000243-003	FERRULE, ELECTRICAL CONDUCTOR
15	55	14	1000243-004	FERRULE, ELECTRICAL CONDUCTOR
15	56	261	1000243-008	FERRULE, ELECTRICAL CONDUCTOR
15	57	31	1000243-009	FERRULE, ELECTRICAL CONDUCTOR
15	58	5	1015864-226	INSULATION-SLEEVING, ELECTRICAL
15	59	29	1000243-014	FERRULE, ELECTRICAL CONDUCTOR
15	60	4	1000243-015	FERRULE, ELECTRICAL CONDUCTOR
15	61	1	1016006-001	SPLICE REDUCER
15	62	1	1010490-200	INSULATION-SLEEVING, ELECTRICAL HEAT SHRINK
15	63	66	1000242-004	FERRULE, ELECTRICAL CONDUCTOR
15	64	261	1000242-007	FERRULE, ELECTRICAL CONDUCTOR

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 12 OF 199

MIL 3084 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
15	65	31	1000242-008	FERRULE, ELECTRICAL CONDUCTOR
15	66	2	1000242-011	FERRULE, ELECTRICAL CONDUCTOR
15	67	29	1000242-012	FERRULE, ELECTRICAL CONDUCTOR
15	68	4	1000242-016	FERRULE, ELECTRICAL CONDUCTOR
15	70	2	1015864-187	INSULATION-SLEEVING, ELECTRICAL
15	71	2	MS3127E22-55PW	(1897053-551) CONNECTOR-RECEPTACLE ELECTRICAL
15	72	2	1016048- 15	TERMINAL-LUG
15	73	1	1016059-100	CONNECTOR
15	74	1	1016059-101	CONNECTOR
15	75	1	1016059-103	CONNECTOR
15	76	1	1016059-105	CONNECTOR
15	77	1	1016059-106	CONNECTOR
15	78	1	1016059-107	CONNECTOR
15	79	1	1016059-108	CONNECTOR
15	80	1	1016059-110	CONNECTOR
	81	AR	MIL-T-713	LACING TAPE TYPE P CLASS 2 BLACK (ES2732 NO. 18)
	82	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	83	AR	MIL-F-14256	TYPE A OR W FLUX (ES2796)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 13 OF 199

MIL 3084 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
15	84	10	1016128-001	BAND-IDENTIFICATION BLANK
	85	1	MS3127E24-61PX	(1897055-612) CONNECTOR-RECEPTACLE ELECTRICAL
15	86	20	1000243-011	FERRULE, ELECTRICAL CONDUCTOR
15	87	18	1000242-010	FERRULE, ELECTRICAL CONDUCTOR
15	88	5	1016287-002	ADAPTER-WIRE, SOLDER POT, COPPER CRIMP STYLE
15	89	15	1015864-194	INSULATION-SLEEVING, ELECTRICAL
15	90	33	1010490-194	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
	91	AR	MIL-I-15126F	INSULATION-TAPE, ELECTRICAL, PRESSURE SENSITIVE THERMO SETTING ADHESIVE TYPE ACT .75 PLUS OR MINUS .03 WIDE (ES2716 TYPE C)
15	92	4	1015864-172	INSULATION-SLEEVING, ELECTRICAL
15	93	19	1015864-174	INSULATION-SLEEVING, ELECTRICAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 14 OF 199

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 6	3		J1-S*	1				.22	NO			
			K19-1	177				.31	YES		49	
A 7	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 7A	2		SHLD A7					.25	NO			
			E20-B	22				.38	NO			
A 7L			J1-U*	1				.22	NO			
			K18-1	176				.31	YES			
A 7R			J1-T*	1				.22	NO			
			K18-7	176				.31	YES			
A 8	3		J1-V*	1				.22	NO			
			K30-1	209				.25	YES		49	
A 10	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 10A	2		SHLD A10					.25	NO			
			E20-B	22				.38	NO			
A 10L			J1-Z*	1				.22	NO			
			K20-9	178				.31	YES		47	
A 10R			J1-Y*	1				.22	NO			
			K20-13	178				.31	YES		47	
A 11	1		J1-AA	1				.22	NO			
			TB12-22	193				.25	YES			
A 12	1		J1-BB	1				.22	NO			
			K20-2	178				.31	YES		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 15 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	8				2.30	2.00				2	52, 63, 55	
					2.00	1.70				1	53	
A 13A	2		SHLD A13					.25	NO			
			E20-B	22				.38	NO			
A 13W			J1-CC	1				.22	NO			
			K28-3	207				.31	YES		46	
A 14	8				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 14A	2		SHLD A14					.25	NO			
			E20-B	22				.38	NO			
A 14W			J1-DD	1				.22	NO			
			K27-3	206				.31	YES		46	
A 15	3		J1-EE	1				.22	NO			
			TB12-14	189				.25	YES			
A 16	3		J1-FF	1				.22	NO			
			TB12-12	188				.25	YES			
A 17	1		J32-AA	307				.22	NO			
			TB13-12B	266				.19	NO		42	
A 21	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 21A	2		SHLD A21					.25	NO			
			E21-B	3				.38	NO			
A 21L			J2-D	5				.22	NO			
			TB13-2F	266				.19	NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 16 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 21R			J2-C	5				.22	NO			
			TB13-1F	266				.19	NO		42	
A 23	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 23A	2		SHLD A23					.25	NO			
			E21-B	3				.38	NO			
A 23L			J2-B*	5				.22	NO			
			K65-3	255				.31	YES		48	
A 23R			J2-A*	5				.22	NO			
			K65-6	255				.31	YES		48	
A 24	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 24A	2		SHLD A24					.25	NO			
			E21-B	3				.38	NO			
A 24L			J2-D*	5				.22	NO			
			K65-9	255				.31	YES		48	
A 24R			J2-C*	5				.22	NO			
			K65-12	255				.31	YES		48	
A 25	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 25A	2		SHLD A25					.25	NO			
			E21-B	3				.38	NO			
A 25L			J2-E*	5				.22	NO			
			K66-3	256				.31	YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25R			J2-F*	5				.22	NO			
			K66-6	256				.31	YES		48	
A 26	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 26A	2		SHLD A26					.25	NO			
			E21-B	3				.38	NO			
A 26L			J2-H*	5				.22	NO			
			K66-9	256				.31	YES		48	
A 26R			J2-G*	5				.22	NO			
			K66-12	256				.31	YES		48	
A 27	1		J33-AA	304				.22	NO			
			TB13-12C	266				.19	NO		42	
A 28	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 28A	2		SHLD A28					.25	NO			
			E22-B	2				.38	NO			
A 28W			J2-N*	5				.22	NO			
			J44-T*	274				.22	NO			
A 29	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 29A	2		SHLD A29					.25	NO			
			E22-B	2				.38	NO			
A 29W			J2-P*	5				.22	NO			
			J44-U*	274				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 18 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 30A	2		SHLD A30 E22-B	2				.25 .38	NO NO			
A 30W			J2-Q* J43-Q*	5 275				.22 .22	NO NO			
A 31	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 31A	2		SHLD A31 E22-B	2				.25 .38	NO NO			
A 31W			J2-R* J43-G*	5 275				.22 .22	NO NO			
A 32	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 32A	2		SHLD A32 E22-B	2				.25 .38	NO NO			
A 32W			J2-S* J43-H*	5 275				.22 .22	NO NO			
A 33	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 33A	2		SHLD A33 E22-B	2				.25 .38	NO NO			
A 33W			J2-T* J44-H*	5 274				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34	3		J2-U* J43-W*	5 275				.22 .22	NO NO			
A 35	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 35A	2		SHLD A35 E22-B	2				.25 .38	NO NO			
A 35W			J2-V* J43-M*	5 275				.22 .22	NO NO			
A 36	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 36A	2		SHLD A36 E23-B	4				.25 .38	NO NO			
A 36W			J2-W* J43-N*	5 275				.22 .22	NO NO			
A 37	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 37A	2		SHLD A37 E23-B	4				.25 .38	NO NO			
A 37W			J2-X* J43-P*	5 275				.22 .22	NO NO			
A 38	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 38A	2		SHLD A38 E23-B	4				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 38W			J2-Y* J44-V*	5 274				.22 .22	NO NO			
A 39	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 39A	2		SHLD A39 E23-B	4				.25 .38	NO NO			
A 39W			J2-Z* J44-W*	5 274				.22 .22	NO NO			
A 40	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 40A	2		SHLD A40 E23-B	4				.25 .38	NO NO			
A 40W			J2-AA J44-X*	5 274				.22 .22	NO NO			
A 41	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 41A	2		SHLD A41 E23-B	4				.25 .38	NO NO			
A 41W			J2-BB J44-Y*	5 274				.22 .22	NO NO			
A 45	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 45A	2		SHLD A45 E24-B	6				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 45L			J3-A* K45-12	8 224				.22 .31	NO YES		49	
A 45R			J3-B* K45-9	8 224				.22 .31	NO YES		49	
A 46	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 46A	2		SHLD A46 E24-B	6				.25 .38	NO NO			
A 46L			J3-D* K45-6	8 224				.22 .31	NO YES		49	
A 46R			J3-C* K45-3	8 224				.22 .31	NO YES		49	
A 47	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 47A	2		SHLD A47 E24-B	6				.25 .38	NO NO			
A 47L			J3-F* K44-15	8 223				.22 .31	NO YES		49	
A 47R			J3-E* K44-12	8 223				.22 .31	NO YES		49	
A 48	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 48A	2		SHLD A48 E24-B	6				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 63L			J4-V J22-X	12 158				.22 .22	NO NO			
A 63R			J4-U J22-W	12 158				.22 .22	NO NO			
A 64	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 64A	2		SHLD A64 E26-B	9				.25 .38	NO NO			
A 64L			J4-X J22-V	12 158				.22 .22	NO NO			
A 64R			J4-W J22-U	12 158				.22 .22	NO NO			
A 65	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 65A	2		SHLD A65 E26-B	9				.25 .38	NO NO			
A 65L			J4-Z J22-R	12 158				.22 .22	NO NO			
A 65R			J4-Y J22-P	12 158				.22 .22	NO NO			
A 66	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 66A	2		SHLD A66 E26-B	9				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 66L			J4-C* J22-T	12 158				.22 .22	NO NO			
A 66R			J4-B* J22-S	12 158				.22 .22	NO NO			
A 67	1		J4-D* TB13-6A	12 266				.22 .19	NO NO		42	
A 68	1		J4-E* TB11-1A	12 37				.22 .19	NO NO		42	
A 69	1		J4-F* J39-R*	12 291				.22 .22	NO NO			
A 70	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 70A	2		SHLD A70 E26-B	9				.25 .38	NO NO			
A 70L			J4-H* TB11-5D	12 37				.22 .19	NO NO		43	
A 70R			J4-G* TB11-3D	12 37				.22 .19	NO NO		43	
A 71	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 71A	2		SHLD A71 E26-B	9				.25 .38	NO NO			
A 71L			J4-K* TB11-8A	12 37				.22 .19	NO NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 71R			J4-J* TB11-7A	12 37				.22 .19	NO NO		42	
A 72	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 72A	2		SHLD A72 E26-B	9				.25 .38	NO NO			
A 72L			J4-N* TB11-14A	12 37				.22 .19	NO NO		42	
A 72R			J4-M* TB11-13A	12 37				.22 .19	NO NO		42	
A 73	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 73A	2		SHLD A73 E27-B	10				.25 .38	NO NO			
A 73L			J4-Q* K48-16	12 227				.22 .31	NO YES		89	
A 73R			J4-P* K48-13	12 227				.22 .31	NO YES		89	
A 74	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 74A	2		SHLD A74 E27-B	10				.25 .38	NO NO			
A 74L			J4-S* K48-10	12 227				.22 .31	NO YES		89	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			J4-R* K48-7	12 227				.22 .31	NO YES		89	
A 75	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 75A	2		SHLD A75 E27-B	10				.25 .38	NO NO			
A 75L			J4-U* K44-16	12 223				.22 .31	NO YES		89	
A 75R			J4-T* K44-13	12 223				.22 .31	NO YES		89	
A 76	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 76A	2		SHLD A76 E27-B	10				.25 .38	NO NO			
A 76L			J4-W* K44-10	12 223				.22 .31	NO YES		89	
A 76R			J4-V* K44-7	12 223				.22 .31	NO YES		89	
A 77	14				1.80 2.50	1.50 2.20				2 1	50, 65, 57 52	
A 77A	2		SHLD A77 E27-B	10				.25 .38	NO NO			
A 77L			J4-Y* J43-Y*	12 275				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 77R			J4-X*	12				.22	NO			
			J43-X*	275				.22	NO			
A 77Y			J4-Z*	12				.22	NO			
			J43-Z*	275				.22	NO			
A 78	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 78A	2		SHLD A78					.25	NO			
			E27-B	10				.38	NO			
A 78L			J4-CC	12				.22	NO			
			J43-GG	275				.22	NO			
A 78R			J4-BB	12				.22	NO			
			J43-FF	275				.22	NO			
A 78Y			J4-DD	12				.22	NO			
			J43-HH	275				.22	NO			
A 79	14				2.80	2.50				2	50, 65, 57	
					2.50	2.20				1	52	
A 79A	2		SHLD A79					.25	NO			
			E27-B	10				.38	NO			
A 79L			J4-EE	12				.22	NO			
			J43-DD	275				.22	NO			
A 79R			J4-FF	12				.22	NO			
			J43-CC	275				.22	NO			
A 79Y			J4-GG	12				.22	NO			
			J43-EE	275				.22	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 80	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 80A	2		SHLD A80					.25	NO			
			E27-B	10				.38	NO			
A 80L			J4-KK	12				.22	NO			
			J43-L	275				.22	NO			
A 80R			J4-JJ	12				.22	NO			
			J43-K	275				.22	NO			
A 81	3		J5-L	16				.22	NO			
			T811-19A	37				.19	NO		43	
A 82	3		J5-M	16				.22	NO			
			T816-3	262				.19	NO		39	
A 83	10				2.80	2.50				2	50, 64, 56	
					2.30	2.00				1	52	
A 83A	2		SHLD A83					.25	NO			
			E57-B	299				.38	NO			
A 83L			J35-K*	300				.22	NO			
			T817-14B	261				.19	NO		42	
A 83R			J35-J*	300				.22	NO			
			T817-13B	261				.19	NO		42	
A 85	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 85A	2		SHLD A85					.25	NO			
			E28-B	14				.38	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85L			J5-D	16				.22	NO			
			K38-13	217				.31	YES		48	
A 85R			J5-C	16				.22	NO			
			K38-10	217				.31	YES		89	
A 86	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 86A	2		SHLD A86					.25	NO			
			E28-B	14				.38	NO			
A 86L			J5-F	16				.22	NO			
			TB13-8A	266				.19	YES		42	
A 86R			J5-E	16				.22	NO			
			TB13-7A	266				.19	YES		42	
A 87	1		J5-J	16				.22	NO			
			J22-Y	158				.22	NO			
A 89	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 89A	2		SHLD A89					.25	NO			
			E28-B	14				.38	NO			
A 89L			J5-P	16				.22	NO			
			J42-I*	279				.22	NO			
A 89R			J5-N	16				.22	NO			
			J42-H*	279				.22	NO			
A 90	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 90A	2		SHLD A90					.25	NO			
			E28-B	14				.38	NO			
A 90L			J5-S	16				.22	NO			
			K38-7	217				.31	YES		48	
A 90R			J5-R	16				.22	NO			
			K38-4	217				.31	YES		89	
A 91	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 91A	2		SHLD A91					.25	NO			
			E28-B	14				.38	NO			
A 91L			J5-U	16				.22	NO			
			TB6-12D	38				.19	NO		42	
A 91R			J5-T	16				.22	NO			
			TB6-14D	38				.19	NO		42	
A 92	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 92A	2		SHLD A92					.25	NO			
			E28-B	14				.38	NO			
A 92L			J5-W	16				.22	NO			
			K54-7	241				.31	YES		48	
A 92R			J5-V	16				.22	NO			
			K54-4	241				.31	YES		48	
A 93	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	93A	2	SHLD A93 E28-B	 14				.25 .38	NO NO			
A	93L		J5-Y J42-K*	16 279				.22 .22	NO NO			
A	93R		J5-X J42-J*	16 279				.22 .22	NO NO			
A	94	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	94A	2	SHLD A94 E28-B	 14				.25 .38	NO NO			
A	94L		J5-B* T86-10D	16 38				.22 .19	NO NO		42	
A	94R		J5-A* T86-9D	16 38				.22 .19	NO NO		42	
A	95	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A	95A	2	SHLD A95 E28-B	 14				.25 .38	NO NO			
A	95L		J5-D* J22-A*	16 158				.22 .22	NO NO			
A	95R		J5-C* J22-Z	16 158				.22 .22	NO NO			
A	96	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	96A	2	SHLD A96 E29-B	 15				.25 .38	NO NO			
A	96L		J5-F* J22-E	16 158				.22 .22	NO NO			
A	96R		J5-E* J22-D	16 158				.22 .22	NO NO			
A	97	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	97A	2	SHLD A97 E29-B	 15				.25 .38	NO NO			
A	97L		J5-H* J22-G	16 158				.22 .22	NO NO			
A	97R		J5-G* J22-F	16 158				.22 .22	NO NO			
A	98	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	98A	2	SHLD A98 E29-B	 15				.25 .38	NO NO			
A	98L		J5-K* J42-Z	16 279				.22 .22	NO NO			
A	98R		J5-J* J42-Y	16 279				.22 .22	NO NO			
A	99	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	99A	2	SHLD A99 E29-B	 15				.25 .38	NO NO			
A	99L		J5-N* J42-G*	16 279				.22 .22	NO NO			
A	99R		J5-M* J42-F*	16 279				.22 .22	NO NO			
A	100	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	100A	2	SHLD A100 E29-B	 15				.25 .38	NO NO			
A	100L		J5-Q* J42-N*	16 279				.22 .22	NO NO			
A	100R		J5-P* J42-M*	16 279				.22 .22	NO NO			
A	101	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	101A	2	SHLD A101 E29-B	 15				.25 .38	NO NO			
A	101L		J5-S* J42-Q*	16 279				.22 .22	NO NO			
A	101R		J5-R* J42-P*	16 279				.22 .22	NO NO			
A	102	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	102A	2	SHLD A102 E29-B	 15				.25 .38	NO NO			
A	102L		J5-V* TB17-6A	16 261				.22 .19	NO NO		42	
A	102R		J5-U* TB17-5A	16 261				.22 .19	NO NO		42	
A	103	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A	103A	2	SHLD A103 E29-B	 15				.25 .38	NO NO			
A	103L		J5-X* TB11-14B	16 37				.22 .19	NO NO		42	
A	103R		J5-W* TB11-13B	16 37				.22 .19	NO NO		42	
A	104	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	104A	2	SHLD A104 E30-B	 13				.25 .38	NO NO			
A	104L		J5-Z* TB11-7B	16 37				.22 .19	NO NO		42	
A	104R		J5-Y* TB11-8B	16 37				.22 .19	NO NO		42	
A	105	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 105A	2		SHLD A105					.25	NO			
			E30-B	13				.38	NO			
A 105L			J5-BB	16				.22	NO			
			T817-4C	261				.19	NO		42	
A 105R			J5-AA	16				.22	NO			
			T817-3C	261				.19	NO		42	
A 106	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 106A	2		SHLD A106					.25	NO			
			E30-B	13				.38	NO			
A 106L			J5-DD	16				.22	NO			
			K48-10	227				.31	YES			
A 106R			J5-CC	16				.22	NO			
			K48-7	227				.31	YES			
A 107	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 107A	2		SHLD A107					.25	NO			
			E30-B	13				.38	NO			
A 107L			J5-FF	16				.22	NO			
			K48-16	227				.31	YES			
A 107R			J5-EE	16				.22	NO			
			K48-13	227				.31	YES			
A 108	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108A	2		SHLD A108					.25	NO			
			E30-B	13				.38	NO			
A 108L			J5-HH	16				.22	NO			
			T817-2C	261				.19	NO		42	
A 108R			J5-GG	16				.22	NO			
			T817-1C	261				.19	NO		42	
A 109	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 109A	2		SHLD A109					.25	NO			
			E30-B	13				.38	NO			
A 109L			J5-JJ	16				.22	NO			
			K59-19	249				.31	YES		48	
A 109R			J5-KK	16				.22	NO			
			K59-16	249				.31	YES		48	
A 110	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 110A	2		SHLD A110					.25	NO			
			E30-B	13				.38	NO			
A 110L			J5-MM	16				.22	NO			
			K59-10	249				.31	YES		48	
A 110R			J5-LL	16				.22	NO			
			K59-13	249				.31	YES		48	
A 111	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 40 OF 199

MIL 2064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 111A	2		SHLD A111					.25	NO			
			E30-B	13				.38	NO			
A 111L			J5-PP	16				.22	NO			
			K54-13	241				.31	YES		48	
A 111R			J5-NN	16				.22	NO			
			K54-10	241				.31	YES		48	
A 112	3		J6-A	17				.28	YES		46	
			E20-B	22				.38	NO			
A 113	17		J6-C	17				.41	YES		70	
			T85-9	56				.41	NO		72	
A 114	17		J6-D	17				.41	YES		70	
			T88-10	34				.41	NO		72	
A 115	4		J6-G	17				.41	YES		46	
			T88-7	34				.19	NO		40	
A 116	4		J6-F	17				.41	YES		46	
			T85-10	53				.19	NO		40	
A 128	3		XF20-2	131				.31	YES			
			T85-7	58				.19	NO		39	
A 129	3		J7-D*	20				.22	NO			
			T88-5	34				.19	NO		39	
A 130	3		J7-E*	20				.22	NO			
			J46-A	267				.28	YES		47	
A 131	3		J7-F*	20				.22	NO			
			J46-C	267				.28	YES		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 41 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 132	3		J7-G*	20				.22	NO			
			J46-F*	267				.28	YES		47	
A 133	3		J7-H*	20				.22	NO			
			J40-A*	290				.28	YES		47	
A 134	3		J7-I*	20				.22	NO			
			J40-C	290				.28	YES		47	
A 135	3		J7-J*	20				.22	NO			
			J40-A	290				.28	YES		47	
A 136	3		J7-K*	20				.22	NO			
			T813-3A	266				.19	NO		43	
A 137	1		J7-R*	20				.22	NO			
			K5-6	48				.31	YES		47	
A 138	1		J7-S*	20				.22	NO			
			K5-4	48				.31	YES		46	
A 139	12				1.80	1.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 139A	2		SHLD A139					.25	NO			
			E20-B	22				.38	NO			
A 139L			J7-U*	20				.22	NO			
			T817-10A	261				.19	NO		43	
A 139R			J7-T*	20				.22	NO			
			T817-9A	261				.19	NO		43	
A 140	1		J7-V*	20				.22	NO			
			K4-6	49				.31	YES		46	

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SCALE - NONE	REV LTR B	SHEET 42 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 141	1		J7-W*	20				.22	NO			
			K4-4	49				.31	YES		46	
A 142	3		J7-X*	20				.22	NO			
			K6-1	47				.31	YES		47	
A 143	3		J7-Y*	20				.22	NO			
			K1-X1	41				.19	NO		45	
A 144	3		J7-Z*	20				.22	NO			
			K1-X2	41				.19	NO		45	
A 145	3		J7-AA	20				.22	NO			
			XF19-1	136				.31	YES			
A 146	3		J7-BB	20				.22	NO			
			TB7-16E	33				.19	NO		43	
A 147	1		J7-CC	20				.22	NO			
			K3-6	50				.31	YES		47	
A 148	1		J7-DD	20				.22	NO			
			K3-4	50				.31	YES		47	
A 149	3		J7-EE	20				.22	NO			
			K2-11	52				.19	NO		45	
A 150	3		J7-FF	20				.22	NO			
			K2-X1	51				.19	NO		45	
A 151	3		J7-GG	20				.22	NO			
			J40-G	290				.28	YES		47	
A 152	3		J7-HH	20				.22	NO			
			J46-G	267				.28	YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 153	3		J8-T	25				.22	NO			
			J39-M*	291				.22	NO			
A 154	1		J8-U	25				.22	NO			
			J27-LL	168				.22	NO			
A 155	1		J8-V	25				.22	NO			
			J27-Z*	168				.22	NO			
A 160	1		J8-A*	25				.22	NO			
			P11-C*	113				.31	YES			
A 161	1		J8-B*	25				.22	NO			
			P10-A	112				.31	YES			
A 162	1		J8-C*	25				.22	NO			
			P10-B	112				.31	YES			
A 163	1		J8-D*	25				.22	NO			
			P10-C	112				.31	YES			
A 164	1		J8-E*	25				.22	NO			
			P10-D	112				.31	YES			
A 165	1		J8-F*	25				.22	NO			
			P10-E	112				.31	YES			
A 166	1		J8-G*	25				.22	NO			
			P10-F	112				.31	YES			
A 167	1		J8-H*	25				.22	NO			
			P10-G	112				.31	YES			
A 168	1		J8-J*	25				.22	NO			
			P10-H	112				.31	YES			

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MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		J8-K*	25				.22	NO			
			P10-J	112				.31	YES			
A 170	1		J8-M*	25				.22	NO			
			P8-K	115				.31	YES			
A 171	1		J8-N*	25				.22	NO			
			P8-M	115				.31	YES			
A 172	1		J8-P*	25				.22	NO			
			P9-D	116				.31	YES			
A 173	1		J8-Q*	25				.22	NO			
			P9-P	116				.31	YES			
A 174	1		J8-R*	25				.22	NO			
			P9-A*	116				.31	YES			
A 175	1		J8-U*	25				.22	NO			
			K7-5	46				.31	YES		49	
A 176	1		J8-V*	25				.22	NO			
			K7-3	46				.31	YES		49	
A 177	1		J8-X*	25				.22	NO			
			J34-N*	301				.22	NO			
A 178	1		J8-Y*	25				.22	NO			
			J34-P*	301				.22	NO			
A 179	1		J8-Z*	25				.22	NO			
			J34-R*	301				.22	NO			
A 180	1		J8-AA	25				.22	NO			
			J34-V*	301				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	3		J8-BB	25				.22	NO			
			J34-K	301				.22	NO			
A 182	1		J8-CC	25				.22	NO			
			J34-HH	301				.22	NO			
A 183	1		J8-DD	25				.22	NO			
			J39-A*	291				.22	NO			
A 184	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 184A	2		SHLD A184					.25	NO			
			E91-B	21				.38	NO			
A 184W			J8-EE	25				.22	NO			
			J39-D*	291				.22	NO			
A 185	3		J8-FF	25				.22	NO			
			J45-J*	268				.22	NO			
A 186	1		J8-GG	25				.22	NO			
			J39-U*	291				.22	NO			
A 187	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 187A	2		SHLD A187					.25	NO			
			E91-B	21				.38	NO			
A 187W			J8-HH	25				.22	NO			
			J39-X*	291				.22	NO			
A 188	1		J8-J	25				.22	NO			
			J39-Y*	291				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 189	1		J8-K	25				.22	NO			
			J39-Z*	291				.22	NO			
A 190	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 190A	2		SHLD A190					.25	NO			
			E91-B	21				.38	NO			
A 190W			J8-L	25				.22	NO			
			J39-AA	291				.22	NO			
A 191	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 191A	2		SHLD A191					.25	NO			
			E91-B	21				.38	NO			
A 191W			J8-M	25				.22	NO			
			J45-FF	268				.22	NO			
A 192	1		J8-N	25				.22	NO			
			J39-FF	291				.22	NO			
A 193	3		J9-Y	26				.22	NO			
			K65-1	255				.31	YES		49	
A 201	3		J9-G*	26				.22	NO			
			K22-3	202				.31	YES		49	
A 202	3		J9-H*	26				.22	NO			
			K22-1	202				.31	YES		49	
A 203	3		J9-J*	26				.22	NO			
			K55-1	242				.31	YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 204	3		J9-K*	26				.22	NO			
			K40-1	219				.31	YES		49	
A 205	3		J9-M*	26				.22	NO			
			K41-1	220				.31	YES		49	
A 206	3		J9-N*	26				.22	NO			
			K56-1	243				.31	YES		49	
A 207	3		J9-P*	26				.22	NO			
			K57-1	247				.31	YES		49	
A 208	3		J9-Q*	26				.22	NO			
			K42-1	221				.31	YES		49	
A 209	3		J9-R*	26				.22	NO			
			K44-3	223				.31	YES		49	
A 210	3		J9-S*	26				.22	NO			
			K44-1	223				.31	YES		49	
A 211	3		J9-T*	26				.22	NO			
			K61-1	251				.31	YES		49	
A 212	3		J9-U*	26				.22	NO			
			K46-1	225				.31	YES		49	
A 213	3		J9-V*	26				.22	NO			
			K48-3	227				.31	YES		49	
A 214	3		J9-W*	26				.22	NO			
			K48-1	227				.31	YES		49	
A 215	3		J9-X*	26				.22	NO			
			K50-1	229				.31	YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 216	3		J9-Y*	26				.22	NO			
			K52-3	231				.31	YES		49	
A 217	3		J9-Z*	26				.22	NO			
			K52-1	231				.31	YES		49	
A 220	3		J9-CC	26				.22	NO			
			J22-W*	158				.22	NO			
A 223	3		J9-FF	26				.22	NO			
			J25-E*	154				.22	NO			
A 224	3		J9-GG	26				.22	NO			
			J25-F*	154				.22	NO			
A 225	1		J9-HH	26				.22	NO			
			TB1-2	110				.25	YES			
A 226	1		J9-JJ	26				.22	NO			
			K7-8	46				.31	YES		49	
A 227	3		J9-KK	26				.22	NO			
			K54-1	241				.31	YES		49	
A 232	11				1.80	1.50				2	50, 87, 86	
					2.50	2.20				1	50	
A 232A	2		SHLD A232					.25	NO			
			E32-8	27				.38	NO			
A 232L			J10-D	29				.22	NO			
			K42-8	221				.31	YES		48	
A 232R			J10-C	29				.22	NO			
			K42-11	221				.31	YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 233A	2		SHLD A233					.25	NO			
			E32-8	27				.38	NO			
A 233L			J10-F	29				.22	NO			
			K46-8	225				.31	YES		48	
A 233R			J10-E	29				.22	NO			
			K46-11	225				.31	YES		48	
A 234	11				2.80	2.50				2	50, 87, 86	
					2.50	2.20				1	50	
A 234A	2		SHLD A234					.25	NO			
			E32-8	27				.38	NO			
A 234L			J10-H	29				.22	NO			
			K50-8	229				.31	YES		48	
A 234R			J10-G	29				.22	NO			
			K50-11	229				.31	YES		48	
A 236	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 236A	2		SHLD A236					.25	NO			
			E32-8	27				.38	NO			
A 236L			J10-U	29				.22	NO			
			K51-14	230				.31	YES		48	
A 236R			J10-T	29				.22	NO			
			K51-17	230				.31	YES		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 50 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 237	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 237A	2		SHLD A237 E32-B	27				.25 .38	NO NO			
A 237L			J10-W K46-14	29 225				.22 .31	NO YES		48	
A 237R			J10-V K46-17	29 225				.22 .31	NO YES		48	
A 238	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 238A	2		SHLD A238 E32-B	27				.25 .38	NO NO			
A 238L			J10-Y K42-14	29 221				.22 .31	NO YES		48	
A 238R			J10-X K42-17	29 221				.22 .31	NO YES		48	
A 239	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 239A	2		SHLD A239 E32-B	27				.25 .38	NO NO			
A 239L			J10-N* K68-10	29 258				.22 .31	NO YES		48	
A 239R			J10-M* K68-13	29 258				.22 .31	NO YES		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 51 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 240	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 240A	2		SHLD A240 E32-B	27				.25 .38	NO NO			
A 240L			J10-Q* K64-13	29 254				.22 .31	NO YES		48	
A 240R			J10-P* K64-10	29 254				.22 .31	NO YES		48	
A 241	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 241A	2		SHLD A241 E33-B	28				.25 .38	NO NO			
A 241L			J10-S* K45-10	29 224				.22 .31	NO YES		48	
A 241R			J10-R* K45-13	29 224				.22 .31	NO YES		48	
A 242	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 242A	2		SHLD A242 E33-B	28				.25 .38	NO NO			
A 242L			J10-U* K67-4	29 257				.22 .31	NO YES		48	
A 242R			J10-T* K67-7	29 257				.22 .31	NO YES		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 52 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 243	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 243A	2		SHLD A243 E33-B	28				.25 .38	NO NO			
A 243L			J10-BB K63-4	29 253				.22 .31	NO YES		48	
A 243R			J10-AA K63-7	29 253				.22 .31	NO YES		48	
A 244	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 244A	2		SHLD A244 E33-B	28				.25 .38	NO NO			
A 244L			J10-DD K45-7	29 224				.22 .31	NO YES		48	
A 244R			J10-CC K45-4	29 224				.22 .31	NO YES		48	
A 249	8				1.80 2.00	1.50 1.70				2 1	52, 63, 55 53	
A 249A	2		SHLD A249 E34-B	31				.25 .38	NO NO			
A 249W			J11-F J25-P*	32 154				.22 .22	NO NO			
A 251	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 53 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251A	2		SHLD A251 E34-B	31				.25 .38	NO NO			
A 251W			J11-H J39-GG	32 291				.22 .22	NO NO			
A 252	1		J11-J E92-B	32 148				.22 .38	NO NO			
A 255	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 255A	2		SHLD A255 E34-B	31				.25 .38	NO NO			
A 255L			J11-P TB7-10C	32 33				.22 .19	NO NO		43	
A 255R			J11-N TB7-9C	32 33				.22 .19	NO NO		43	
A 256	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 256A	2		SHLD A256 E34-B	31				.25 .38	NO NO			
A 256L			J11-S J41-G	32 280				.22 .22	NO NO			
A 256R			J11-R J41-F	32 280				.22 .22	NO NO			
A 257	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 54 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 257A	2		SHLD A257 E34-B	 31				.25 .38	NO NO			
A 257L			J11-U J41-E	32 280				.22 .22	NO NO			
A 257R			J11-T J41-D	32 280				.22 .22	NO NO			
A 258	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 258A	2		SHLD A258 E34-B	 31				.25 .38	NO NO			
A 258L			J11-W J41-C	32 280				.22 .22	NO NO			
A 258R			J11-V J41-B	32 280				.22 .22	NO NO			
A 259	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 259A	2		SHLD A259 E34-B	 31				.25 .38	NO NO			
A 259L			J11-Y J27-G*	32 168				.22 .22	NO NO			
A 259R			J11-X J27-F*	32 168				.22 .22	NO NO			
A 260	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 55 OF 199

MIL 2064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 260A	2		SHLD A260 E34-B	 31				.25 .38	NO NO			
A 260L			J11-B* J27-I*	32 168				.22 .22	NO NO			
A 260R			J11-A* J27-H*	32 168				.22 .22	NO NO			
A 261	3		J5-K TB16-1	16 262				.22 .19	NO NO		39	
A 262	1		J8-S J34-DD	25 301				.22 .22	NO NO			
A 264	3		J24-E TB13-14F	173 266				.22 .19	NO NO		43	
A 265	1		J25-K* TB13-10D	154 266				.22 .19	NO NO		42	
A 266	1		J37-CC TB13-14A	295 266				.22 .19	NO NO		42	
A 267	6		J21-H TB4-10	149 80				.41 .31	YES NO		46 41	
A 268	12				2.80 2.50	2.50 2.20				2 1	90, 67, 59 50	
A 268A	2		SHLD A268 E36-B	 155				.25 .38	NO NO			
A 268L			J21-N TB17-10D	149 261				.25 .19	YES NO		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 56 OF 199

MIL 2064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 268R			J21-M TB17-9D	149 261				.25 .19	YES NO		43	
A 269	6		J21-P TB4-2	149 87				.41 .31	YES NO		46 41	
A 270	10				2.80 2.80	2.50 2.50				2 1	50, 64, 56 52	
A 270A	2		SHLD A270 E93-B	 172				.25 .38	NO NO			
A 270L			J24-KK TB13-20C	173 266				.22 .19	NO NO		42	
A 270R			J24-JJ TB13-19C	173 266				.22 .19	NO NO		42	
A 271	1		J31-K* TB17-14C	311 261				.22 .19	NO NO		42	
A 272	7				2.30 2.30	2.00 2.00				2 1	52, 63, 54 53	
A 272A	2		SHLD A272 E94-B	 303				.25 .38	NO NO			
A 272W			J34-A XF17-1	301 130				.22 .31	NO YES			
A 273	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 273A	2		SHLD A273 E94-B	 303				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 57 OF 199

MIL 2064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 273W			J34-E XF18-1	301 129				.22 .31	NO YES			
A 274	3		J34-G E87-B	301 263				.22 .38	NO NO			
A 275	3		J34-J E87-B	301 263				.22 .38	NO NO			
A 277	16				2.80 2.80	2.50 2.50				2 1	90, 68, 60 50	
A 277A	2		SHLD A277 E57-B	 299				.25 .38	NO NO			
A 277L			J35-H TB6-10B	300 38				.22 .19	NO NO		43	
A 277R			J35-K TB6-16A	300 38				.22 .19	NO NO		43	
A 277Y			J35-J TB6-9B	300 38				.22 .19	NO NO		43	
A 278	14				2.80 2.50	2.50 2.20				2 1	50, 65, 57 52	
A 278A	2		SHLD A278 E57-B	 299				.25 .38	NO NO			
A 278L			J35-T TB6-13B	300 38				.22 .19	NO NO		42	
A 278R			J35-R TB6-14B	300 38				.22 .19	NO NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 58 OF 199

MIL 2064 4-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	6		J21-G	149			.41	YES		46	
			TB15-1	264			.31	NO		41	
A 308	4		J21-K	149			.28	YES		47	
			TB5-4	63			.19	NO		40	
A 309	4		J21-L	149			.28	YES		47	
			TB5-3	64			.19	NO		40	
A 310	3		J22-B	158			.22	NO			
			E37-B	156			.38	NO			
A 311	10				1.80	1.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 311A	2		SHLD A311				.25	NO			
			E37-B	156			.38	NO			
A 311L			J22-K	158			.22	NO			
			K67-10	257			.31	YES		48	
A 311R			J22-H	158			.22	NO			
			K67-13	257			.31	YES		48	
A 312	1		J22-J	158			.22	NO			
			TB11-7F	37			.19	NO		42	
A 313	10				2.30	2.00			2	50, 64, 56	
					2.50	2.20			1	52	
A 313A	2		SHLD A313				.25	NO			
			E36-B	155			.38	NO			
A 313L			J22-C*	158			.22	NO			
			K44-10	223			.31	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B 4	SHEET 63 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313R			J22-B*	158			.22	NO			
			K44-7	223			.31	YES			
A 314	10				2.80	2.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 314A	2		SHLD A314				.25	NO			
			E36-B	155			.38	NO			
A 314L			J22-E*	158			.22	NO			
			K44-16	223			.31	YES			
A 314R			J22-D*	158			.22	NO			
			K44-13	223			.31	YES			
A 315	10				3.30	3.00			2	50, 64, 56	
					2.50	2.20			1	52	
A 315A	2		SHLD A315				.25	NO			
			E36-B	155			.38	NO			
A 315L			J22-G*	158			.22	NO			
			K59-4	249			.31	YES		48	
A 315R			J22-F*	158			.22	NO			
			K59-7	249			.31	YES		48	
A 316	10				1.80	1.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 316A	2		SHLD A316				.25	NO			
			E36-B	155			.38	NO			
A 316L			J22-I*	158			.22	NO			
			K60-10	250			.31	YES		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B 4	SHEET 64 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 316R			J22-H*	158			.22	NO			
			K60-13	250			.31	YES		48	
A 317	14				2.30	2.00			2	50, 65, 57	
					2.50	2.20			1	52	
A 317A	2		SHLD A317				.25	NO			
			E37-B	156			.38	NO			
A 317L			J22-M*	158			.22	NO			
			K43-4	222			.31	YES		49	
A 317R			J22-J*	158			.22	NO			
			K43-10	222			.31	YES		49	
A 317Y			J22-K*	158			.22	NO			
			K43-7	222			.31	YES		48	
A 318	10				2.80	2.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 318A	2		SHLD A318				.25	NO			
			E37-B	156			.38	NO			
A 318L			J22-P*	158			.22	NO			
			K63-16	253			.31	YES		48	
A 318R			J22-N*	158			.22	NO			
			K63-19	253			.31	YES		48	
A 319	10				3.30	3.00			2	50, 64, 56	
					2.50	2.20			1	52	
A 319A	2		SHLD A319				.25	NO			
			E37-B	156			.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B 4	SHEET 65 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319L			J22-R*	158			.22	NO			
			K63-10	253			.31	YES		48	
A 319R			J22-Q*	158			.22	NO			
			K63-13	253			.31	YES		48	
A 320	10				1.80	1.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 320A	2		SHLD A320				.25	NO			
			E37-B	156			.38	NO			
A 320L			J22-T*	158			.22	NO			
			K49-7	228			.31	YES		48	
A 320R			J22-S*	158			.22	NO			
			K49-4	228			.31	YES		48	
A 321	10				2.30	2.00			2	50, 64, 56	
					2.50	2.20			1	52	
A 321A	2		SHLD A321				.25	NO			
			E37-B	156			.38	NO			
A 321L			J22-V*	158			.22	NO			
			K49-13	228			.31	YES		48	
A 321R			J22-U*	158			.22	NO			
			K49-10	228			.31	YES		48	
A 322	1		J22-Y*	158			.22	NO			
			TB11-13F	37			.19	NO		42	
A 323	10				2.80	2.50			2	50, 64, 56	
					2.50	2.20			1	52	

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SCALE - NONE	REV LTR B 4	SHEET 66 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337A	2		SHLD A337 E89-B	 162				.25 .38	NO NO			
A 337L			J23-P J41-M*	165 280				.22 .22	NO NO			
A 337R			J23-N J41-K*	165 280				.22 .22	NO NO			
A 338	3		J23-R E89-B	165 162				.22 .38	NO NO			
A 339	14				1.80 2.50	1.50 2.20				2 1	50, 65, 57 52	
A 339A	2		SHLD A339 E90-B	 163				.25 .38	NO NO			
A 339L			J23-T J41-T	165 280				.22 .22	NO NO			
A 339R			J23-S J41-U	165 280				.22 .22	NO NO			
A 339Y			J23-U J41-S	165 280				.22 .22	NO NO			
A 340	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 340A	2		SHLD A340 E90-B	 163				.25 .38	NO NO			
A 340L			J23-W J35-V	165 300				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 340R			J23-V J35-U	165 300				.22 .22	NO NO			
A 341	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 341A	2		SHLD A341 E90-B	 163				.25 .38	NO NO			
A 341L			J23-Y J35-X	165 300				.22 .22	NO NO			
A 341R			J23-X J35-W	165 300				.22 .22	NO NO			
A 342	16				3.30 2.50	3.00 2.20				2 1	90, 68, 60 50	
A 342A	2		SHLD A342 E90-B	 163				.25 .38	NO NO			
A 342L			J23-C* TB6-10C	165 38				.22 .19	NO NO		 43	
A 342R			J23-B* TB6-11C	165 38				.22 .19	NO NO		 43	
A 342Y			J23-D* TB6-9C	165 38				.22 .19	NO NO		 43	
A 343	11				1.80 2.50	1.50 2.20				2 1	50, 87, 86 50	
A 343A	2		SHLD A343 E90-B	 163				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 343L			J23-F* J41-W	165 280				.22 .22	NO NO			
A 343R			J23-E* J41-V	165 280				.22 .22	NO NO			
A 344	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 344A	2		SHLD A344 E90-B	 163				.25 .38	NO NO			
A 344L			J23-I* J41-X	165 280				.22 .22	NO NO			
A 344R			J23-G* J41-Y	165 280				.22 .22	NO NO			
A 344Y			J23-H* J41-Z	165 280				.22 .22	NO NO			
A 345	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 345A	2		SHLD A345 E90-B	 163				.25 .38	NO NO			
A 345L			J23-K* TB7-4B	165 33				.22 .19	NO NO		 42	
A 345R			J23-J* TB7-3B	165 33				.22 .19	NO NO		 42	
A 346	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 346A	2		SHLD A346 E90-B	 163				.25 .38	NO NO			
A 346L			J23-N* TB13-5A	165 266				.22 .19	NO NO		 42	
A 346R			J23-M* TB13-4A	165 266				.22 .19	NO NO		 42	
A 347	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 347A	2		SHLD A347 E90-B	 163				.25 .38	NO NO			
A 347L			J23-S* TB6-4A	165 38				.22 .19	NO NO		 42	
A 347R			J23-R* TB6-1A	165 38				.22 .19	NO NO		 42	
A 349	16				2.30 2.50	2.00 2.20				2 1	90, 68, 60 50	
A 349A	2		SHLD A349 E42-B	 171				.25 .38	NO NO			
A 349L			J24-B J35-G	173 300				.22 .22	NO NO			
A 349R			J24-A J35-E	173 300				.22 .22	NO NO			
A 349Y			J24-C J35-F	173 300				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 366A	2		SHLD A366				.25	NO			
			E42-B	171			.38	NO			
A 366L			J24-R*	173			.22	NO			
			J42-EE	279			.22	NO			
A 366R			J24-Q*	173			.22	NO			
			J42-FF	279			.22	NO			
A 368	11				2.30	2.00			2	50, 87, 86	
					2.50	2.20			1	50	
A 368A	2		SHLD A368				.25	NO			
			E42-B	171			.38	NO			
A 368L			J24-V*	173			.22	NO			
			J41-EE	280			.22	NO			
A 368R			J24-U*	173			.22	NO			
			J41-DD	280			.22	NO			
A 369	10				2.80	2.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 369A	2		SHLD A369				.25	NO			
			E42-B	171			.38	NO			
A 369L			J24-X*	173			.22	NO			
			T813-5B	266			.19	NO		42	
A 369R			J24-W*	173			.22	NO			
			T813-4B	266			.19	NO		42	
A 370	10				3.30	3.00			2	50, 64, 56	
					2.50	2.20			1	52	

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SCALE-NONE	REV LTR B	SHEET 79 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 370A	2		SHLD A370				.25	NO			
			E42-B	171			.38	NO			
A 370L			J24-Y*	173			.22	NO			
			T87-3A	33			.19	NO		42	
A 370R			J24-Z*	173			.22	NO			
			T87-4A	33			.19	NO		42	
A 371	10				1.80	1.50			2	50, 64, 56	
					2.50	2.20			1	52	
A 371A	2		SHLD A371				.25	NO			
			E42-B	171			.38	NO			
A 371L			J24-HH	173			.22	NO			
			J41-FF	280			.22	NO			
A 371R			J24-BB	173			.22	NO			
			J41-GG	280			.22	NO			
A 372	10				2.30	2.00			2	50, 64, 56	
					2.50	2.20			1	52	
A 372A	2		SHLD A372				.25	NO			
			E42-B	171			.38	NO			
A 372L			J24-DD	173			.22	NO			
			T813-18C	266			.19	NO		42	
A 372R			J24-CC	173			.22	NO			
			T813-17C	266			.19	NO		42	
A 373	7				2.30	2.00			2	52, 63, 54	
					2.50	2.20			1	53	

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SCALE-NONE	REV LTR B	SHEET 80 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373A	2		SHLD A373				.25	NO			
			E93-B	172			.38	NO			
A 373W			J24-AA	173			.22	NO			
			J41-HH	280			.22	NO			
A 375	14				3.30	3.00			2	57, 65, 50	
					2.50	2.20			1	52	
A 375A	2		SHLD A375				.25	NO			
			E42-B	171			.38	NO			
A 375L			J24-NN	173			.22	NO			
			J35-FF	300			.22	NO			
A 375R			J24-MM	173			.22	NO			
			J35-EE	300			.22	NO			
A 375Y			J24-PP	173			.22	NO			
			J35-GG	300			.22	NO			
A 376	3		J25-B	154			.22	NO			
			E43-B	152			.22	NO			
A 377	7				2.80	2.50			2	52, 63, 54	
					2.80	2.50			1	53	
A 377A	2		SHLD A377				.25	NO			
			E44-B	153			.38	NO			
A 377W			J25-D	154			.22	NO			
			J44-F*	274			.22	NO			
A 378	7				2.80	2.50			2	52, 63, 54	
					2.80	2.50			1	53	

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SCALE-NONE	REV LTR B	SHEET 81 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 378A	2		SHLD A378				.25	NO			
			E44-B	153			.38	NO			
A 378W			J25-E	154			.22	NO			
			J44-G*	274			.22	NO			
A 379	7				2.30	2.00			2	52, 63, 54	
					2.30	2.00			1	53	
A 379A	2		SHLD A379				.25	NO			
			E44-B	153			.38	NO			
A 379W			J25-F	154			.22	NO			
			J44-I*	274			.22	NO			
A 380	7				2.30	2.00			2	52, 63, 54	
					2.30	2.00			1	53	
A 380A	2		SHLD A380				.25	NO			
			E44-B	153			.38	NO			
A 380W			J25-G	154			.22	NO			
			J44-K*	274			.22	NO			
A 383	12				1.80	1.50			2	90, 67, 59	
					2.50	2.20			1	50	
A 383A	2		SHLD A383				.25	NO			
			E43-B	152			.38	NO			
A 383L			J25-N	154			.22	NO			
			T813-2E	266			.19	NO		43	
A 383R			J25-M	154			.22	NO			
			T813-1E	266			.19	NO		43	

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SCALE-NONE	REV LTR B	SHEET 82 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 401R			J26-U T87-98	159 33				.22 .19	NO NO		43	
A 402	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 402A	2		SHLD A402 E45-8	161A				.25 .38	NO NO			
A 402W			J26-W J44-J*	159 274				.22 .22	NO NO			
A 405	11				3.30 2.50	3.00 2.20				2 1	50, 87, 86 50	
A 405A	2		SHLD A405 E45-8	161A				.25 .38	NO NO			
A 405L			J26-E* T813-8C	159 266				.22 .19	NO NO		42	
A 405R			J26-D* T813-7C	159 266				.22 .19	NO NO		42	
A 407	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 407A	2		SHLD A407 E46-8	160				.25 .38	NO NO			
A 407L			J26-I* K54-14	159 241				.22 .31	NO YES		48	
A 407R			J26-H* K54-11	159 241				.22 .31	NO YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 408	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 408A	2		SHLD A408 E46-8	160				.25 .38	NO NO			
A 408L			J26-K* K55-7	159 242				.22 .31	NO YES		48	
A 408R			J26-J* K55-4	159 242				.22 .31	NO YES		48	
A 409	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 409A	2		SHLD A409 E46-8	160				.25 .38	NO NO			
A 409L			J26-N* K60-4	159 250				.22 .31	NO YES		49	
A 409R			J26-M* K60-7	159 250				.22 .31	NO YES		49	
A 410	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 410A	2		SHLD A410 E46-8	160				.25 .38	NO NO			
A 410L			J26-O* K43-13	159 222				.22 .31	NO YES		49	
A 410R			J26-P* K43-16	159 222				.22 .31	NO YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 411	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 411A	2		SHLD A411 E46-8	160				.25 .38	NO NO			
A 411L			J26-S* K42-7	159 221				.22 .31	NO YES		49	
A 411R			J26-R* K42-10	159 221				.22 .31	NO YES		49	
A 411Y			J26-T* K42-4	159 221				.22 .31	NO YES		49	
A 412	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 412A	2		SHLD A412 E46-8	160				.25 .38	NO NO			
A 412L			J26-V* K64-4	159 254				.22 .31	NO YES		49	
A 412R			J26-U* K64-7	159 254				.22 .31	NO YES		49	
A 413	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 413A	2		SHLD A413 E46-8	160				.25 .38	NO NO			
A 413L			J26-X* K47-13	159 226				.22 .31	NO YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 413R			J26-W* K47-16	159 226				.22 .31	NO YES		49	
A 414	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 414A	2		SHLD A414 E47-8	161				.25 .38	NO NO			
A 414L			J26-Z* K46-13	159 225				.22 .31	NO YES		49	
A 414R			J26-Y* K46-16	159 225				.22 .31	NO YES		49	
A 415	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 415A	2		SHLD A415 E47-8	161				.25 .38	NO NO			
A 415L			J26-CC K46-7	159 225				.22 .31	NO YES		49	
A 415R			J26-BB K46-10	159 225				.22 .31	NO YES		49	
A 415Y			J26-DD K46-4	159 225				.22 .31	NO YES		49	
A 416	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 416A	2		SHLD A416 E47-8	161				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 416L			J26-FF	159				.22	NO			
			K68-4	258				.31	YES		49	
A 416R			J26-EE	159				.22	NO			
			K68-7	258				.31	YES		49	
A 417	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 417A	2		SHLD A417					.25	NO			
			E47-B	161				.38	NO			
A 417L			J26-HH	159				.22	NO			
			K50-13	229				.31	YES		49	
A 417R			J26-GG	159				.22	NO			
			K50-16	229				.31	YES		49	
A 418	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 418A	2		SHLD A418					.25	NO			
			E47-B	161				.38	NO			
A 418L			J26-KK	159				.22	NO			
			K51-13	230				.31	YES		49	
A 418R			J26-JJ	159				.22	NO			
			K51-16	230				.31	YES		49	
A 419	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 419A	2		SHLD A419					.25	NO			
			E47-B	161				.38	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 419L			J26-MM	159				.22	NO			
			K50-7	229				.31	YES		49	
A 419R			J26-LL	159				.22	NO			
			K50-10	229				.31	YES		49	
A 419Y			J26-NN	159				.22	NO			
			K50-4	229				.31	YES		49	
A 420	3		J27-8	168				.22	NO			
			E48-8	167				.38	NO			
A 421	3		J27-M	168				.22	NO			
			J38-A*	293				.22	NO			
A 422	3		J27-N	168				.22	NO			
			J33-A*	304				.22	NO			
A 423	3		J27-P	168				.22	NO			
			J32-Z	307				.22	NO			
A 424	1		J27-S	168				.22	NO			
			T817-8A	261				.19	NO		42	
A 428	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 428A	2		SHLD A428					.25	NO			
			E48-B	167				.38	NO			
A 428L			J27-B*	168				.22	NO			
			J10-PP	29				.22	NO			
A 428R			J27-A*	168				.22	NO			
			J10-NN	29				.22	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 432	3		J27-J*	168				.22	NO			
			E87-B	263				.38	NO			
A 436	7				2.80	2.50				2	52, 63, 54	
					2.30	2.00				1	53	
A 436A	2		SHLD A436					.25	NO			
			E48-B	167				.38	NO			
A 436W			J27-Q*	168				.22	NO			
			J33-I*	304				.22	NO			
A 437	7				2.80	2.50				2	52, 63, 54	
					2.30	2.00				1	53	
A 437A	2		SHLD A437					.25	NO			
			E48-B	167				.38	NO			
A 437W			J27-R*	168				.22	NO			
			J38-I*	293				.22	NO			
A 438	7				2.50	2.20				2	52, 63, 54	
					2.30	2.00				1	53	
A 438A	2		SHLD A438					.25	NO			
			E48-B	167				.38	NO			
A 438W			J27-S*	168				.22	NO			
			J32-I*	307				.22	NO			
A 439	7				2.50	2.20				2	52, 63, 54	
					2.30	2.00				1	53	
A 439A	2		SHLD A439					.25	NO			
			E48-B	167				.38	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 439W			J27-T*	168				22	NO			
			J32-A*	307				.22	NO			
A 440	1		J27-AA	168				.22	NO			
			TB13-68	266				.19	NO		42	
A 441	1		J27-BB	168				.22	NO			
			TB11-1B	37				.19	NO		42	
A 442	1		J27-CC	168				.22	NO			
			J45-P*	268				.22	NO			
A 443	1		J27-DD	168				.22	NO			
			J45-Q*	268				.22	NO			
A 444	1		J27-EE	168				.22	NO			
			J45-R*	268				.22	NO			
A 448	1		J27-KK	168				.22	NO			
			J39-CC	291				.22	NO			
A 449	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 449A	2		SHLD A449					.25	NO			
			E48-B	167				.38	NO			
A 449L			J27-NN	168				.22	NO			
			K42-13	221				.31	YES		49	
A 449R			J27-MM	168				.22	NO			
			K42-16	221				.31	YES		49	
A 450	3		J27-PP	168				.22	NO			
			K22-8	202				.31	YES		47	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 451	5		J30-A	314				.41	YES		46	
			TB3-9	69				.19	NO		40	
A 452	5		J30-B	314				.41	YES		46	
			TB3-10	68				.19	NO		40	
A 453	5		J30-C	314				.41	YES		46	
			TB3-3	76				.19	NO		40	
A 454	5		J30-D	314				.41	YES		46	
			TB3-2	77				.19	NO		40	
A 455	6		J30-E	314				.41	YES		46	
			TB14-4	265				.31	NO		41	
A 457	3		J31-B	311				.22	NO			
			E50-B	312				.38	NO			
A 459	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 459A	2		SHLD A459					.25	NO			
			E50-B	312				.38	NO			
A 459L			J31-Z	311				.22	NO			
			TB13-16B	266				.19	NO		42	
A 459R			J31-Y	311				.22	NO			
			TB13-15B	266				.19	NO		42	
A 460	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 460A	2		SHLD A460					.25	NO			
			E50-B	312				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 460L			J31-C*	311				.22	NO			
			TB13-16E	266				.19	NO		42	
A 460R			J31-B*	311				.22	NO			
			TB13-15E	266				.19	NO		42	
A 461	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 461A	2		SHLD A461					.25	NO			
			E50-B	312				.38	NO			
A 461L			J31-F*	311				.22	NO			
			TB17-17B	261				.19	NO		42	
A 461R			J31-E*	311				.22	NO			
			TB17-18B	261				.19	NO		42	
A 462	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 462A	2		SHLD A462					.25	NO			
			E50-B	312				.38	NO			
A 462L			J31-H*	311				.22	NO			
			TB7-6B	33				.19	NO		42	
A 462R			J31-G*	311				.22	NO			
			TB7-5B	33				.19	NO		42	
A 463	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 463A	2		SHLD A463					.25	NO			
			E50-B	312				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 96 OF 199

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 463L			J31-J*	311				.22	NO			
			TB17-14A	261				.19	NO		42	
A 463R			J31-I*	311				.22	NO			
			TB17-13A	261				.19	NO		42	
A 464	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 464A	2		SHLD A464					.25	NO			
			E50-B	312				.38	NO			
A 464L			J31-N*	311				.22	NO			
			J41-R*	280				.22	NO			
A 464R			J31-M*	311				.22	NO			
			J41-Q*	280				.22	NO			
A 465	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 465A	2		SHLD A465					.25	NO			
			E50-B	312				.38	NO			
A 465L			J31-Q*	311				.22	NO			
			J41-T*	280				.22	NO			
A 465R			J31-P*	311				.22	NO			
			J41-S*	280				.22	NO			
A 466	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 466A	2		SHLD A466					.25	NO			
			E50-B	312				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 97 OF 199

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 466L			J31-S*	311				.22	NO			
			J36-BB	298				.22	NO			
A 466R			J31-R*	311				.22	NO			
			J36-AA	298				.22	NO			
A 468	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 468A	2		SHLD A468					.25	NO			
			E50-B	312				.38	NO			
A 468W			J31-T*	311				.22	NO			
			J36-CC	298				.22	NO			
A 469	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 469A	2		SHLD A469					.25	NO			
			E51-B	313				.38	NO			
A 469L			J31-U*	311				.22	NO			
			J42-X*	279				.22	NO			
A 469R			J31-V*	311				.22	NO			
			J42-W*	279				.22	NO			
A 470	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 470A	2		SHLD A470					.25	NO			
			E51-B	313				.38	NO			
A 470L			J31-W*	311				.22	NO			
			J42-Z*	279				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 98 OF 199

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 470R			J31-X*	311				.22	NO			
			J42-Y*	279				.22	NO			
A 471	14				3.30	3.00				3	50, 65, 57	
					2.50	2.20				3	50, 65, 57	
A 471A	2		SHLD A471					.25	NO			
			J31-C	311				.22	NO			
A 471B	2		J36-X	298				.22	NO			
			SHLD A471					.25	NO			
A 471L			J31-Z*	311				.22	NO			
			J36-EE	298				.22	NO			
A 471R			J31-Y*	311				.22	NO			
			J36-DD	298				.22	NO			
A 471Y			J31-AA	311				.22	NO			
			J36-FF	298				.22	NO			
A 472	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 472A	2		SHLD A472					.25	NO			
			E51-8	313				.38	NO			
A 472L			J31-DD	311				.22	NO			
			T817-16C	261				.19	NO		42	
A 472R			J31-CC	311				.22	NO			
			T817-15C	261				.19	NO		42	
A 473	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 99 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 473A	2		SHLD A473					.25	NO			
			E51-8	313				.38	NO			
A 473W			J31-EE	311				.22	NO			
			TB13-13B	266				.19	NO		42	
A 474	1		J31-FF	311				.22	NO			
			TB13-14B	266				.19	NO		42	
A 476	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 476A	2		SHLD A476					.25	NO			
			E51-8	313				.38	NO			
A 476L			J31-JJ	311				.22	NO			
			J36-HH	298				.22	NO			
A 476R			J31-HH	311				.22	NO			
			J36-GG	298				.22	NO			
A 478	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 478A	2		SHLD A478					.25	NO			
			E51-8	313				.38	NO			
A 478L			J31-PP	311				.22	NO			
			T86-5E	38				.19	NO		42	
A 478R			J31-NN	311				.22	NO			
			T86-2E	38				.19	NO		42	
A 480	3		J32-B	307				.22	NO			
			E52-B	308				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 100 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 482	1		J32-B*	307				.22	NO			
			T813-10C	266				.19	NO		42	
A 483	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 483A	2		SHLD A483					.25	NO			
			E52-B	308				.38	NO			
A 483L			J32-D*	307				.22	NO			
			T811-5A	37				.19	NO		42	
A 483R			J32-C*	307				.22	NO			
			T811-4A	37				.19	NO		42	
A 484	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 484A	2		SHLD A484					.25	NO			
			E52-B	308				.38	NO			
A 484L			J32-F*	307				.22	NO			
			K51-14	230				.31	YES			
A 484R			J32-E*	307				.22	NO			
			K51-17	230				.31	YES			
A 485	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 485A	2		SHLD A485					.25	NO			
			E52-B	308				.38	NO			
A 485L			J32-H*	307				.22	NO			
			T817-6C	261				.19	NO		42	

MANNED SPACE: RAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 101 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 485R			J32-G*	307				.22	NO			
			T817-5C	261				.19	NO		42	
A 486	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 486A	2		SHLD A486					.25	NO			
			E52-B	308				.38	NO			
A 486L			J32-K*	307				.22	NO			
			K66-10	256				.31	YES		49	
A 486R			J32-J*	307				.22	NO			
			K66-13	256				.31	YES		49	
A 487	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 487A	2		SHLD A487					.25	NO			
			E52-B	308				.38	NO			
A 487L			J32-N*	307				.22	NO			
			K66-4	256				.31	YES		49	
A 487R			J3Z-M*	307				.22	NO			
			K66-7	256				.31	YES		49	
A 488	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 488A	2		SHLD A488					.25	NO			
			E52-B	308				.38	NO			
A 488L			J32-Q*	307				.22	NO			
			K68-5	258				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 102 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 506	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 506A	2		SHLD A506 E54-B	 305				.25 .38	NO NO			
A 506L			J33-H* T817-4A	304 261				.22 .19	NO NO		 42	
A 506R			J33-G* T817-3A	304 261				.22 .19	NO NO		 42	
A 507	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 507A	2		SHLD A507 E54-B	 305				.25 .38	NO NO			
A 507L			J33-K* K62-10	304 252				.22 .31	NO YES		 49	
A 507R			J33-J* K62-13	304 252				.22 .31	NO YES		 49	
A 508	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 508A	2		SHLD A508 E54-B	 305				.25 .38	NO NO			
A 508L			J33-N* K62-4	304 252				.22 .31	NO YES		 49	
A 508R			J33-M* K62-7	304 252				.22 .31	NO YES		 49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 107 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 509	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 509A	2		SHLD A509 E54-B	 305				.25 .38	NO NO			
A 509L			J33-Q* K64-5	304 254				.22 .31	NO YES		 49	
A 509R			J33-P* K64-8	304 254				.22 .31	NO YES		 49	
A 510	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 510A	2		SHLD A510 E54-B	 305				.25 .38	NO NO			
A 510L			J33-S* K61-10	304 251				.22 .31	NO YES		 49	
A 510R			J33-R* K61-13	304 251				.22 .31	NO YES		 49	
A 511	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 511A	2		SHLD A511 E54-B	 305				.25 .38	NO NO			
A 511L			J33-U* K61-4	304 251				.22 .31	NO YES		 49	
A 511R			J33-T* K61-7	304 251				.22 .31	NO YES		 49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 108 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 512	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 512A	2		SHLD A512 E55-B	 306				.25 .38	NO NO			
A 512L			J33-Z* T817-20C	304 261				.22 .19	NO NO		 42	
A 512R			J33-Y* T817-19C	304 261				.22 .19	NO NO		 42	
A 513	10				2.80 2.80	2.50 2.50				2 1	50, 64, 56 52	
A 513A	2		SHLD A513 E54-B	 305				.25 .38	NO NO			
A 513L			J33-CC T813-2C	304 266				.22 .19	NO NO		 42	
A 513R			J33-BB T813-1C	304 266				.22 .19	NO NO		 42	
A 515	1		J33-DD T813-11B	304 266				.22 .19	NO NO		 42	
A 516	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 516A	2		SHLD A516 E55-B	 306				.25 .38	NO NO			
A 516L			J33-EE K46-8	304 225				.22 .31	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 109 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 516R			J33-GG K46-11	304 225				.22 .31	NO YES			
A 516Y			J33-FF K46-5	304 225				.22 .31	NO YES		 49	
A 517	14				2.80 2.50	2.50 2.20				2 1	50, 65, 57 52	
A 517A	2		SHLD A517 E55-B	 306				.25 .38	NO NO			
A 517L			J33-HH K47-5	304 226				.22 .31	NO YES		 49	
A 517R			J33-JJ K47-11	304 226				.22 .31	NO YES		 49	
A 517Y			J33-KK K47-7	304 226				.22 .31	NO YES			
A 518	11				3.30 2.50	3.00 2.20				2 1	50, 87, 86 50	
A 518A	2		SHLD A518 E55-B	 306				.25 .38	NO NO			
A 518L			J33-MM T86-4D	304 38				.22 .19	NO NO		 42	
A 518R			J33-LL T86-1D	304 38				.22 .19	NO NO		 42	
A 519	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 110 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 544W			J34-Z*	301				.22	NO			
			J39-H*	291				.22	NO			
A 545	3		J34-AA	301				.22	NO			
			J39-I*	291				.22	NO			
A 546	3		J34-BB	301				.22	NO			
			J39-J*	291				.22	NO			
A 547	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 547A	2		SHLD A547					.25	NO			
			E94-B	303				.38	NO			
A 547W			J34-CC	301				.22	NO			
			J39-K*	291				.22	NO			
A 549	1		J34-EE	301				.22	NO			
			J39-N*	291				.22	NO			
A 550	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 550A	2		SHLD A550					.25	NO			
			E94-B	303				.38	NO			
A 550W			J34-FF	301				.22	NO			
			J39-P*	291				.22	NO			
A 551	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 551A	2		SHLD A551					.25	NO			
			E94-B	303				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR E 4 | SHEET 115 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 551W			J34-GG	301				.22	NO			
			J39-Q*	291				.22	NO			
A 552	3		J35-B	300				.22	NO			
			E57-B	299				.38	NO			
A 553	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 553A	2		SHLD A553					.25	NO			
			E57-B	299				.38	NO			
A 553L			J35-M	300				.22	NO			
			TB13-14C	266				.19	NO		42	
A 553R			J35-L	300				.22	NO			
			TB13-13C	266				.19	NO		42	
A 554	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 554A	2		SHLD A554					.25	NO			
			E57-B	299				.38	NO			
A 554L			J35-P	300				.22	NO			
			TB17-16A	261				.19	NO		42	
A 554R			J35-N	300				.22	NO			
			TB17-15A	261				.19	NO		42	
A 555	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 555A	2		SHLD A555					.25	NO			
			E57-B	299				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 116 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 555L			J35-Z	300				.22	NO			
			TB13-18D	266				.19	NO		42	
A 555R			J35-Y	300				.22	NO			
			TB13-17D	266				.19	NO		42	
A 556	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 556A	2		SHLD A556					.25	NO			
			E57-B	299				.38	NO			
A 556W			J35-D*	300				.22	NO			
			J37-F*	295				.22	NO			
A 557	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 557A	2		SHLD A557					.25	NO			
			E57-B	299				.38	NO			
A 557L			J35-F*	300				.22	NO			
			J37-H*	295				.22	NO			
A 557R			J35-E*	300				.22	NO			
			J37-G*	295				.22	NO			
A 559	1		J35-Q*	300				.22	NO			
			J43-X	275				.22	NO			
A 560	1		J35-Y*	300				.22	NO			
			TB13-3C	266				.19	NO		42	
A 561	3		J36-B	298				.22	NO			
			E58-B	297				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 117 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 562	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 562A	2		SHLD A562					.25	NO			
			E58-B	297				.38	NO			
A 562L			J36-F*	298				.22	NO			
			K30-15	209				.31	YES		48	
A 562R			J36-E*	298				.22	NO			
			K30-16	209				.31	YES		49	
A 563	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 563A	2		SHLD A563					.25	NO			
			E58-B	297				.38	NO			
A 563L			J36-H*	298				.22	NO			
			K30-18	209				.31	YES		48	
A 563R			J36-G*	298				.22	NO			
			K30-19	209				.31	YES		49	
A 564	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 564A	2		SHLD A564					.25	NO			
			E58-B	297				.38	NO			
A 564L			J36-J*	298				.22	NO			
			K19-15	177				.31	YES		48	
A 564R			J36-I*	298				.22	NO			
			K19-16	177				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 118 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 565	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 565A	2		SHLD A565 E58-8	 297				.25 .38	NO NO			
A 565L			J36-M* K19-18	298 177				.22 .31	NO YES		49	
A 565R			J36-K* K19-19	298 177				.22 .31	NO YES		49	
A 566	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 566A	2		SHLD A566 E58-8	 297				.25 .38	NO NO			
A 566L			J36-P* J37-P*	298 295				.22 .22	NO NO			
A 566R			J36-N* J37-N*	298 295				.22 .22	NO NO			
A 567	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 567A	2		SHLD A567 E58-8	 297				.25 .38	NO NO			
A 567W			J36-Q* J37-Q*	298 295				.22 .22	NO NO			
A 568	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B #	SHEET 119 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 568A	2		SHLD A568 E58-8	 297				.25 .38	NO NO			
A 568L			J36-S* J37-S*	298 295				.22 .22	NO NO			
A 568R			J36-R* J37-R*	298 295				.22 .22	NO NO			
A 569	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 569A	2		SHLD A569 E58-8	 297				.25 .38	NO NO			
A 569L			J36-U* J37-U*	298 295				.22 .22	NO NO			
A 569R			J36-T* J37-T*	298 295				.22 .22	NO NO			
A 570	14				.80 2.50	2.50 2.20				3 3	50, 65, 57 50, 65, 57	
A 570A	2		SHLD A570 J36-W	 298				.25 .22	NO NO			
A 5708	2		J37-C SHLD A570	295				.22 .25	NO NO			
A 570L			J36-W* J37-W*	298 295				.22 .22	NO NO			
A 570R			J36-V* J37-V*	298 295				.22 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B #	SHEET 120 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 570Y			J36-X* J37-X*	298 295				.22 .22	NO NO			
A 571	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 571A	2		SHLD A571 E58-8	 297				.25 .38	NO NO			
A 571L			J36-Z* J37-FF	298 295				.22 .22	NO NO			
A 571R			J36-Y* J37-EE	298 295				.22 .22	NO NO			
A 573	3		J37-8 E61-8	295 271				.22 .38	NO NO			
A 575	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 575A	2		SHLD A575 E61-8	 271				.25 .38	NO NO			
A 575L			J37-Z TB13-16A	295 266				.22 .19	NO NO		42	
A 575R			J37-Y TB13-15A	295 266				.22 .19	NO NO		42	
A 576	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 576A	2		SHLD A576 E61-8	 271				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B #	SHEET 121 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 576L			J37-C* TB7-4D	295 33				.22 .19	NO NO		42	
A 576R			J37-B* TB7-3D	295 33				.22 .19	NO NO		42	
A 577	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 577A	2		SHLD A577 E59-8	 296				.25 .38	NO NO			
A 577L			J37-E* TB13-5C	295 266				.22 .19	NO NO		42	
A 577R			J37-D* TB13-4C	295 266				.22 .19	NO NO		42	
A 578	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 578A	2		SHLD A578 E59-8	 296				.25 .38	NO NO			
A 578L			J37-J* J41-E*	295 280				.22 .22	NO NO			
A 578R			J37-I* J41-F*	295 280				.22 .22	NO NO			
A 579	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 579A	2		SHLD A579 E59-B	 296				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B #	SHEET 122 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 579L			J37-K*	295				.22	NO			
			J41-H*	280				.22	NO			
A 579R			J37-M*	295				.22	NO			
			J41-G*	280				.22	NO			
A 580	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 580A	2		SHLD A580					.25	NO			
			E59-8	296				.38	NO			
A 580L			J37-Z*	295				.22	NO			
			T817-16D	261				.19	NO		42	
A 580R			J37-Y*	295				.22	NO			
			T817-15D	261				.19	NO		42	
A 581	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 581A	2		SHLD A581					.25	NO			
			E59-8	296				.38	NO			
A 581W			J37-BB	295				.22	NO			
			T813-13A	266				.19	NO		42	
A 583	11				1.80	1.50				2	50, 87, 86	
					2.50	2.20				1	50	
A 583A	2		SHLD A583					.25	NO			
			E59-8	296				.38	NO			
A 583L			J37-LL	295				.22	NO			
			T86-4E	38				.19	NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 123 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 583R			J37-KK	295				.22	NO			
			T86-1E	38				.19	NO		42	
A 584	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 584A	2		SHLD A584					.25	NO			
			E59-8	296				.38	NO			
A 584L			J37-MM	295				.22	NO			
			T813-20D	266				.19	NO		42	
A 584R			J37-PP	295				.22	NO			
			T813-19D	266				.19	NO		42	
A 584Y			J37-NN	295				.22	NO			
			T813-20E	266				.19	NO		42	
A 586	3		J38-8	293				.22	NO			
			E60-8	294				.38	NO			
A 588	1		J38-8*	293				.22	NO			
			T813-10A	266				.19	NO		42	
A 589	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 589A	2		SHLD A589					.25	NO			
			E60-8	294				.38	NO			
A 589L			J38-D*	293				.22	NO			
			T811-5C	37				.19	NO		42	
A 589R			J38-C*	293				.22	NO			
			T811-4C	37				.19	NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 124 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 590	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 590A	2		SHLD A590					.25	NO			
			E60-8	294				.38	NO			
A 590L			J38-F*	293				.22	NO			
			K42-14	221				.31	YES		49	
A 590R			J38-E*	293				.22	NO			
			K42-17	221				.31	YES		49	
A 591	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 591A	2		SHLD A591					.25	NO			
			E60-8	294				.38	NO			
A 591L			J38-H*	293				.22	NO			
			T817-2A	261				.19	NO		42	
A 591R			J38-G*	293				.22	NO			
			T817-1A	261				.19	NO		42	
A 592	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 592A	2		SHLD A592					.25	NO			
			E60-8	294				.38	NO			
A 592L			J38-K*	293				.22	NO			
			K58-10	248				.31	YES		49	
A 592R			J38-J*	293				.22	NO			
			K58-13	248				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 125 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 593	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 593A	2		SHLD A593					.25	NO			
			E60-8	294				.38	NO			
A 593L			J38-N*	293				.22	NO			
			K58-4	248				.31	YES		49	
A 593R			J38-M*	293				.22	NO			
			K58-7	248				.31	YES		49	
A 594	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 594A	2		SHLD A594					.25	NO			
			E60-8	294				.38	NO			
A 594L			J38-Q*	293				.22	NO			
			K60-5	250				.31	YES		49	
A 594R			J38-P*	293				.22	NO			
			K60-8	250				.31	YES		49	
A 595	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 595A	2		SHLD A595					.25	NO			
			E60-8	294				.38	NO			
A 595L			J38-S*	293				.22	NO			
			K57-10	247				.31	YES		49	
A 595R			J38-R*	293				.22	NO			
			K57-13	247				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 126 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 596	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 596A	2		SHLD A596 E61-B	 271				.25 .38	NO NO			
A 596L			J38-U* K57-4	293 247				.22 .31	NO YES		49	
A 596R			J38-I* K57-7	293 247				.22 .31	NO YES		49	
A 597	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 597A	2		SHLD A597 E61-B	 271				.25 .38	NO NO			
A 597L			J38-Z* T817-20A	293 261				.22 .19	NO NO		42	
A 597R			J38-Y* T817-19A	293 261				.22 .19	NO NO		42	
A 598	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 598A	2		SHLD A598 E61-B	 271				.25 .38	NO NO			
A 598L			J38-CC T813-2D	293 266				.22 .19	NO NO		42	
A 598R			J38-BB T813-1D	293 266				.22 .19	NO NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 127 OF 199

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 600	1		J38-DD TB13-11A	293 266				.22 .19	NO NO		42	
A 601	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 601A	2		SHLD A601 E61-B	 271				.25 .38	NO NO			
A 601L			J38-EE K42-8	293 221				.22 .31	NO YES			
A 601R			J38-GG K42-11	293 221				.22 .31	NO YES			
A 601Y			J38-FF K42-5	293 221				.22 .31	NO YES		49	
A 602	14				2.80 2.50	2.50 2.20				2 1	50, 65, 57 52	
A 602A	2		SHLD A602 E61-B	 271				.25 .38	NO NO			
A 602L			J38-HH K43-5	293 222				.22 .31	NO YES		49	
A 602R			J38-JJ K43-11	293 222				.22 .31	NO YES		49	
A 602Y			J38-KK K43-7	293 222				.22 .31	NO YES			
A 603	11				3.30 2.50	3.00 2.20				2 1	50, 87, 86 50	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 128 OF 199

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 603A	2		SHLD A603 E61-B	 271				.25 .38	NO NO			
A 603L			J38-MM T86-4B	293 38				.22 .19	NO NO		42	
A 603R			J38-LL T86-1B	293 38				.22 .19	NO NO		42	
A 604	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 604A	2		SHLD A604 E61-B	 271				.25 .38	NO NO			
A 604W			J38-NN T811-3B	293 37				.22 .19	NO NO		42	
A 605	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 605A	2		SHLD A605 E61-B	 271				.25 .38	NO NO			
A 605W			J38-PP T811-2F	293 37				.22 .19	NO NO		42	
A 607	3		J39-B E62-B	291 292				.22 .38	NO NO			
A 608	1		J39-X T817-8B	291 261				.22 .19	NO NO		42	
A 611	9				2.30 2.00	2.00 1.70				2 1	52, 63, 55 53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 129 OF 199

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 611A	2		SHLD A611 E62-B	 292				.25 .38	NO NO			
A 611W			J39-V* T86-3B	291 38				.22 .19	NO NO		43	
A 612	9				2.80 2.00	2.50 1.70				2 1	52, 63, 55 53	
A 612A	2		SHLD A612 E62-B	 292				.25 .38	NO NO			
A 612W			J39-W* T86-3C	291 38				.22 .19	NO NO		43	
A 614	1		J39-EE TB11-1C	291 37				.22 .19	NO NO		42	
A 615	1		J39-DD T813-6C	291 266				.22 .19	NO NO		42	
A 616	3		J40-C* E62-B	290 292				.28 .38	YES NO		47	
A 617	4		J40-D T85-4	290 63				.28 .19	YES NO		47 40	
A 618	4		J40-E TB16-7	290 262				.28 .19	YES NO		47 40	
A 619	6		J40-I TB2-8	290 92				.41 .31	YES NO		46 41	
A 620	6		J40-J TB2-7	290 93				.41 .31	YES NO		46 41	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 130 OF 199

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 621	5		J40-K	290				.41	YES		46	
			T83-8	70				.19	NO		40	
A 622	5		J40-L	290				.41	YES		46	
			T83-7	71				.19	NO		40	
A 623	5		J40-M	290				.41	YES		46	
			T84-8	82				.19	NO		40	
A 624	5		J40-N	290				.41	YES		46	
			T84-7	83				.19	NO		40	
A 625	6		J40-S	290				.41	YES		46	
			T816-8	262				.31	NO		41	
A 626	6		J40-T	290				.41	YES		46	
			T816-10	262				.31	NO		41	
A 627	6		J40-U	290				.41	YES		46	
			T814-10	265				.31	NO		41	
A 628	6		J40-V	290				.41	YES		46	
			T810-4	36				.31	NO		41	
A 630	12				1.80	1.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 630A	2		SHLD A630					.25	NO			
			E62-B	292				.38	NO			
A 630L			J40-E*	290				.28	YES		47	
			T817-10C	261				.19	NO		43	
A 630R			J40-D*	290				.28	YES		47	
			T817-9C	261				.19	NO		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 131 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 644	3		J41-H	280				.22	NO			
			E63-B	278				.38	NO			
A 645	1		J41-N	280				.22	NO			
			T87-13F	33				.19	NO		42	
A 646	1		J41-P	280				.22	NO			
			K20-5	178				.31	YES		46	
A 647	1		J41-R	280				.22	NO			
			K20-3	178				.31	YES		47	
A 648	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 648A	2		SHLD A648					.25	NO			
			E63-B	278				.38	NO			
A 648L			J41-D*	280				.22	NO			
			T87-4C	33				.19	NO		42	
A 648R			J41-C*	280				.22	NO			
			T87-3C	33				.19	NO		42	
A 649	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 649A	2		SHLD A649					.25	NO			
			E63-B	278				.38	NO			
A 649L			J41-I*	280				.22	NO			
			T813-5D	266				.19	NO		42	
A 649R			J41-J*	280				.22	NO			
			T813-4D	266				.19	NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 132 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 650	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 650A	2		SHLD A650					.25	NO			
			E63-B	278				.38	NO			
A 650L			J41-P*	280				.22	NO			
			T87-6C	33				.19	NO		42	
A 650R			J41-N*	280				.22	NO			
			T87-5C	33				.19	NO		42	
A 651	1		J41-U*	280				.22	NO			
			J44-T	274				.22	NO			
A 652	1		J41-V*	280				.22	NO			
			J44-W	274				.22	NO			
A 653	1		J41-W*	280				.22	NO			
			J44-X	274				.22	NO			
A 654	3		J42-B	279				.22	NO			
			E63-B	278				.38	NO			
A 655	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 655A	2		SHLD A655					.25	NO			
			E63-B	278				.38	NO			
A 655L			J42-B*	279				.22	NO			
			J43-S*	275				.22	NO			
A 655R			J42-A*	279				.22	NO			
			J43-R*	275				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 133 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 656	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 656A	2		SHLD A656					.25	NO			
			E63-B	278				.38	NO			
A 656L			J42-D*	279				.22	NO			
			J43-U*	275				.22	NO			
A 656R			J42-C*	279				.22	NO			
			J43-T*	275				.22	NO			
A 658	3		K3-9	50				.31	YES		47	
			E87-B	263				.38	NO			
A 659	3		J43-G	275				.22	NO			
			E65-B	276				.38	NO			
A 661	3		J43-P	275				.22	NO			
			T812-40	200				.25	YES			
A 662	8				1.80	1.50				2	52, 63, 55	
					2.50	2.20				1	53	
A 662A	2		SHLD A662					.25	NO			
			E65-B	276				.38	NO			
A 662W			J43-S	275				.22	NO			
			K8-12	39				.31	YES		47	
A 664	3		J43-V	275				.22	NO			
			T814-8	265				.19	NO		39	
A 665	1		J43-W	275				.22	NO			
			P6-B	114				.31	YES		93	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 134 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 666	8				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 666A	2		SHLD A666					.25	NO			
			E65-B	276				.38	NO			
A 666W			J43-Y	275				.22	NO			
			TB13-13F	266				.19	NO		42	
A 667	3		J43-Z	275				.22	NO			
			P6-D	114				.31	YES			
A 668	3		J43-A*	275				.22	NO			
			E65-B	276				.38	NO			
A 669	1		J43-B*	275				.22	NO			
			P6-W	114				.31	YES		93	
A 670	3		J43-C*	275				.22	NO			
			K8-3	39				.31	YES		47	
A 671	1		J43-D*	275				.22	NO			
			P6-P	114				.31	YES		93	
A 672	1		J43-E*	275				.22	NO			
			P2-E	119				.31	YES		93	
A 673	1		J43-F*	275				.22	NO			
			P2-H	119				.31	YES		93	
A 674	3		J43-I*	275				.22	NO			
			P6-Z	114				.31	YES			
A 675	11				3.30	3.00				2	50, 87, 86	
					2.50	2.20				1	50	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 135 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 675A	2		SHLD A675					.25	NO			
			E65-B	276				.38	NO			
A 675L			J43-K*	275				.22	NO			
			K20-8	178				.31	YES		47	
A 675R			J43-J*	275				.22	NO			
			K20-14	178				.31	YES		47	
A 676	3		J43-V*	275				.22	NO			
			P6-A	114				.31	YES			
A 677	1		J44-B	274				.22	NO			
			TB17-8C	261				.19	NO		42	
A 678	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 678A	2		SHLD A678					.25	NO			
			E66-B	273				.38	NO			
A 678W			J44-C	274				.22	NO			
			K30-14	209				.31	YES		49	
A 679	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 679A	2		SHLD A679					.25	NO			
			E66-B	273				.38	NO			
A 679L			J44-E	274				.22	NO			
			K19-11	177				.31	YES		48	
A 679R			J44-D	274				.22	NO			
			K19-14	177				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 136 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 680	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 680A	2		SHLD A680					.25	NO			
			E66-B	273				.38	NO			
A 680L			J44-G	274				.22	NO			
			K19-5	177				.31	YES		49	
A 680R			J44-F	274				.22	NO			
			K19-8	177				.31	YES		49	
A 681	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 681A	2		SHLD A681					.25	NO			
			E66-B	273				.38	NO			
A 681L			J44-J	274				.22	NO			
			K30-5	209				.31	YES		49	
A 681R			J44-H	274				.22	NO			
			K30-8	209				.31	YES		49	
A 682	1		J44-K	274				.22	NO			
			K20-7	178				.31	YES		47	
A 686	1		J44-S	274				.22	NO			
			P2-C	119				.31	YES		93	
A 687	1		J44-U	274				.22	NO			
			P2-B	119				.31	YES		93	
A 688	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 137 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 688A	2		SHLD A688					.25	NO			
			E63-B	278				.38	NO			
A 688L			J42-U*	279				.22	NO			
			TB17-17C	261				.19	NO		42	
A 688R			J42-T*	279				.22	NO			
			TB17-18C	261				.19	NO		42	
A 689	1		J44-Y	274				.22	NO			
			P6-E	114				.31	YES			
A 690	1		J44-Z	274				.22	NO			
			P2-P	119				.31	YES			
A 691	3		J44-A*	274				.22	NO			
			E66-B	273				.38	NO			
A 692	1		J44-B*	274				.22	NO			
			P2-D	119				.31	YES			
A 693	1		J44-C*	274				.22	NO			
			P2-X	119				.31	YES			
A 694	3		J44-D*	274				.22	NO			
			P2-S	119				.31	YES			
A 695	3		J44-E*	274				.22	NO			
			P2-F	119				.31	YES			
A 696	3		J44-M*	274				.22	NO			
			P2-L	119				.31	YES		93	
A 697	1		J44-N*	274				.22	NO			
			P2-A*	119				.31	YES		93	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 138 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 698	1		J44-P*	274				.22	NO			
			P2-Z	119				.31	YES		93	
A 699	1		J44-R*	274				.22	NO			
			P2-N	119				.31	YES		93	
A 700	1		J44-S*	274				.22	NO			
			P2-M	119				.31	YES		93	
A 701	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 701A	2		SHLD A701					.25	NO			
			E66-B	273				.38	NO			
A 701W			J44-AA	274				.22	NO			
			K27-1	206				.31	YES		47	
A 702	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 702A	2		SHLD A702					.25	NO			
			E66-B	273				.38	NO			
A 702W			J44-BB	274				.22	NO			
			K28-1	207				.31	YES		47	
A 703	3		J44-CC	274				.22	NO			
			K20-1	178				.31	YES		47	
A 704	3		J44-DD	274				.22	NO			
			P2-A	119				.31	YES		93	
A 705	3		J45-B	268				.22	NO			
			E67-B	269				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 139 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 706	3		J45-H*	268				.22	NO			
			E87-B	263				.38	NO			
A 707	3		J45-N*	268				.22	NO			
			E87-B	263				.38	NO			
A 708	3		J45-S*	268				.22	NO			
			T813-12A	266				.19	NO		43	
A 709	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 709A	2		SHLD A709					.25	NO			
			E67-B	269				.38	NO			
A 709L			J45-X*	268				.22	NO			
			T817-6B	261				.19	NO		42	
A 709R			J45-W*	268				.22	NO			
			TR17-5B	261				.19	NO		42	
A 710	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 710A	2		SHLD A710					.25	NO			
			E67-B	269				.38	NO			
A 710L			J45-Y*	268				.22	NO			
			T811-5E	37				.19	NO		42	
A 710R			J45-Z*	268				.22	NO			
			T811-3E	37				.19	NO		42	
A 711	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 140 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 711A	2		SHLD A711					.25	NO			
			E67-B	269				.38	NO			
A 711L			J45-CC	268				.22	NO			
			TB17-2B	261				.19	NO		42	
A 711R			J45-BB	268				.22	NO			
			TB17-1B	261				.19	NO		42	
A 712	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 712A	2		SHLD A712					.25	NO			
			E67-B	269				.38	NO			
A 712L			J45-EE	268				.22	NO			
			TB17-4B	261				.19	NO		42	
A 712R			J45-DD	268				.22	NO			
			TB17-3B	261				.19	NO		42	
A 713	3		J45-GG	268				.22	NO			
			TB12-2D	192				.25	YES			
A 714	4		J46-D	267				.28	YES		47	
			TB5-3	64				.19	NO		40	
A 715	4		J46-E	267				.28	YES		47	
			TB16-9	262				.19	NO		40	
A 716	6		J46-I	267				.28	YES		46	
			TB2-5	96				.31	NO		41	
A 717	6		J46-J	267				.28	YES		46	
			TB2-4	97				.31	NO		41	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 141 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 718	5		J46-K	267				.41	YES		46	
			TB3-5	74				.19	NO		40	
A 719	5		J46-L	267				.41	YES		46	
			TB3-4	75				.19	NO		40	
A 720	5		J46-M	267				.41	YES		46	
			TB4-5	85				.19	NO		40	
A 721	5		J46-N	267				.41	YES		46	
			TB4-4	86				.19	NO		40	
A 722	6		J46-S	267				.41	YES		46	
			TB16-12	262				.31	NO		41	
A 723	6		J46-T	267				.41	YES		46	
			TB16-14	262				.31	NO		41	
A 724	6		J46-U	267				.41	YES		46	
			TB14-12	265				.31	NO		41	
A 725	6		J46-V	267				.41	YES		46	
			TB10-6	36				.31	NO		41	
A 726	6		K1-A1	43				.31	NO		41	
			TB2-1	100				.31	NO		41	
A 727	6		K1-A2	40				.31	NO		41	
			K2-A1	45				.31	NO		41	
A 728	6		K1-B1	43				.31	NO		41	
			TB2-6	94				.31	NO		41	
A 729	3		K1-X1	41				.19	NO		45	
			K6-4	47				.31	YES		46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 142 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 730	3		K1-X2	41				.19	NO		45	
			K6-11	47				.31	YES		46	
A 731	6		K2-A2	45				.31	NO		41	
			XF2-1	146				.31	YES			
A 732	3		K2-X1	51				.19	NO		45	
			T81-4	109				.25	YES			
A 733	3		K2-X2	44				.19	NO		45	
			T86-7D	38				.19	NO		43	
A 734	4		K3-2	50				.31	YES		47	
			K6-5	47				.31	YES		47	
A 735	4		K3-3	50				.31	YES		47	
			XF1-1	147				.31	YES			
A 736	3		K3-5	50				.31	YES		47	
			T81-6	108				.25	YES			
A 737	3		K3-11	50				.31	YES		47	
			T86-7E	38				.19	NO		43	
A 738	4		K4-2	49				.31	YES		47	
			E15	42				.25	YES			
A 739	3		K17-4	175				.31	YES		47	
			T811-20B	37				.19	NO		43	
A 740	4		K4-3	49				.31	YES		47	
			XF3-1	138				.31	YES			
A 741	1		K4-5	49				.31	YES		46	
			T81-8	107				.25	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 742	3		K4-11	49				.31	YES		47	
			T86-8A	38				.19	NO		43	
A 743	4		K5-2	48				.31	YES		47	
			K6-12	47				.31	YES		47	
A 744	4		K5-3	48				.31	YES		47	
			XF4-1	137				.31	YES			
A 745	1		K5-5	48				.31	YES		46	
			T81-10	106				.25	YES			
A 746	3		K5-11	48				.31	YES		47	
			T86-8B	38				.19	NO		43	
A 747	3		K6-3	47				.31	YES		47	
			T87-12E	33				.19	NO		43	
A 748	3		K6-4	47				.31	YES			
			T81-20	104				.25	YES			
A 749	4		K6-6	47				.31	YES		47	
			T85-1	66				.19	NO		40	
A 750	4		K6-7	47				.31	YES		47	
			T85-6	61				.19	NO		40	
A 751	4		K6-8	47				.31	YES		47	
			T83-6	73				.19	NO		40	
A 752	4		K6-9	47				.31	YES		47	
			T83-1	78				.19	NO		40	
A 753	3		K6-11	47				.31	YES			
			T81-19	105				.19	NO		43	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 754	4		K6-13	47				.31	YES		47	
			T84-1	88				.19	NO		40	
A 755	4		K6-14	47				.31	YES		47	
			T84-6	84				.19	NO		40	
A 756	3		K7-2	46				.31	YES		49	
			T87-20F	33				.19	NO		43	
A 757	3		K7-4	46				.31	YES		49	
			K25-4	204				.31	YES		48	
A 758	3		K8-4	39				.31	YES		46	
			T81-2	110				.25	YES			
A 760	1		K8-8	39				.31	YES		46	
			T86-6B	38				.19	NO		42	
A 762	3		K8-11	39				.31	YES		47	
			T86-7C	38				.19	NO		43	
A 763	3		K17-2	175				.31	YES		47	
			T87-12D	33				.19	NO		43	
A 764	3		K17-3	175				.31	YFS		46	
			K18-4	176				.31	YES		46	
A 765	3		K17-4	175				.31	YES			
			T812-40	200				.25	YES			
A 766	3		K17-11	175				.31	YES		47	
			T812-39	201				.25	YES			
A 767	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 767A	2		SHLD A767					.25	NO			
			E68-B	179				.38	NO			
A 767L			K18-8	176				.31	YES			
			K19-12	177				.31	YES		48	
A 767R			K18-10	176				.31	YES		47	
			K19-9	177				.31	YES		49	
A 768	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 768A	2		SHLD A768					.25	NO			
			E68-B	179				.38	NO			
A 768L			K18-9	176				.31	YES			
			K29-9	208				.31	YES			
A 768R			K18-13	176				.31	YES			
			K29-13	208				.31	YES			
A 769	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 769A	2		SHLD A769					.25	NO			
			E68-B	179				.38	NO			
A 769L			K18-3	176				.31	YES			
			K19-3	177				.31	YES		49	
A 769R			K18-5	176				.31	YES		47	
			K19-6	177				.31	YES		49	
A 770	3		K18-4	176				.31	YES		47	
			T812-4	184				.25	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 771	3		K18-11	176				.31	YES		47	
			TB7-13C	33				.19	NO		43	
A 772	3		K17-3	175				.31	YES			
			K29-4	208				.31	YES		46	
A 773	3		K19-11	177				.31	YES			
			K30-11	209				.31	YES		49	
A 774	3		K19-2	177				.31	YES		48	
			K30-2	209				.31	YES		49	
A 775	3		K19-2	177				.31	YES			
			TB7-13D	33				.19	NO		43	
A 776	3		K20-4	178				.31	YES		47	
			TB12-8	186				.25	YES			
A 777	3		TB12-22	193				.25	YES			
			K17-11	175				.31	YES			
A 779	3		K20-11	178				.31	YES		47	
			TB7-13E	33				.19	NO		43	
A 784	3		K22-2	202				.31	YES		49	
			TB7-20D	33				.19	NO		43	
A 785	3		J25-K	154				.22	NO			
			TB13-12F	266				.19	NO		43	
A 789	3		K25-2	204				.31	YES		49	
			TB7-15D	33				.19	NO		43	
A 790	3		K27-2	206				.31	YES		47	
			K28-2	207				.31	YES		46	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 791	3		K27-4	206				.31	YES			
			TB12-12	188				.25	YES			
A 792	3		K27-11	206				.31	YES		47	
			TB7-14B	33				.19	NO		43	
A 793	3		K28-2	207				.31	YES			
			TB11-20A	37				.19	NO		43	
A 795	3		K28-4	207				.31	YES			
			TB12-14	189				.25	YES			
A 796	3		K28-11	207				.31	YES		47	
			TB7-14C	33				.19	NO		43	
A 798	11				2.50	2.20				2	50, 87, 86	
					2.50	2.20				1	50	
A 798A	2		SHLD A798					.25	NO			
			E68-8	179				.38	NO			
A 798L			K29-3	208				.31	YES		47	
			K30-3	209				.31	YES		49	
A 798R			K29-5	208				.31	YES		47	
			K30-6	209				.31	YES		49	
A 799	3		K29-4	208				.31	YES			
			TB12-2	183				.25	YES			
A 800	3		K29-11	208				.31	YES		47	
			TB7-13B	33				.19	NO		43	
A 810	11				2.50	2.20				2	50, 87, 86	
					2.50	2.20				1	50	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 810A	2		SHLD A810					.25	NO			
			E69-8	181				.38	NO			
A 810L			K20-10	178				.31	YES		47	
			TB13-18E	266				.19	NO		42	
A 810R			K20-12	178				.31	YES		47	
			TB13-17E	266				.19	NO		42	
A 834	3		K38-1	217				.31	YES		49	
			K54-15	241				.31	YES		49	
A 835	3		K38-2	217				.31	YES		49	
			K54-2	241				.31	YES		48	
A 836	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 836A	2		SHLD A836					.25	NO			
			E71-8	234				.38	NO			
A 836L			K38-6	217				.31	YES		48	
			K41-6	220				.31	YES		49	
A 836R			K38-3	217				.31	YES		49	
			K41-3	220				.31	YES		49	
A 838	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 838A	2		SHLD A838					.25	NO			
			E71-8	234				.38	NO			
A 838L			K38-12	217				.31	YES		48	
			K55-6	242				.31	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 838R			K38-9	217				.31	YES		49	
			K55-3	242				.31	YES		48	
A 840	3		K40-2	219				.31	YES		49	
			TB7-19C	33				.19	NO		43	
A 841	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 841A	2		SHLD A841					.25	NO			
			E71-8	234				.38	NO			
A 841L			K40-6	219				.31	YES		49	
			K55-6	242				.31	YES			
A 841R			K40-3	219				.31	YES		49	
			K55-3	242				.31	YES			
A 842	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 842A	2		SHLD A842					.25	NO			
			E71-8	234				.38	NO			
A 842L			K40-7	219				.31	YES		49	
			K41-8	220				.31	YES		49	
A 842R			K40-4	219				.31	YES		49	
			K41-5	220				.31	YES		49	
A 843	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 843A	2		SHLD A843					.25	NO			
			E71-8	234				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 843L			K40-8	219				.31	YES		49	
			K54-12	241				.31	YES		49	
A 843R			K40-5	219				.31	YES		49	
			K54-9	241				.31	YES		49	
A 844	3		K41-2	220				.31	YES		49	
			TB7-19B	33				.19	NO		43	
A 845	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 845A	2		SHLD A845					.25	NO			
			E73-8	236				.38	NO			
A 845L			K41-7	220				.31	YES		49	
			K56-7	243				.31	YES		48	
A 845R			K41-4	220				.31	YES		49	
			K56-10	243				.31	YES		49	
A 846	3		K42-18	221				.31	YES		49	
			K43-1	222				.31	YES		48	
A 847	3		K42-2	221				.31	YES		49	
			K43-2	222				.31	YES		48	
A 848	3		K43-1	222				.31	YES			
			K59-1	249				.31	YES		48	
A 849	3		K43-2	222				.31	YES			
			K59-2	249				.31	YES		48	
A 850	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 850A	2		SHLD A850					.25	NO			
			E73-8	236				.38	NO			
A 850L			K43-14	222				.31	YES		49	
			TB17-2D	261				.19	NO		42	
A 850R			K43-17	222				.31	YES		49	
			TB17-1D	261				.19	NO		42	
A 851	3		K44-18	223				.31	YES		49	
			K45-1	224				.31	YES		49	
A 852	3		K44-2	223				.31	YES		48	
			K45-2	224				.31	YES		48	
A 853	3		K44-2	223				.31	YES			
			TB7-18E	33				.19	NO		43	
A 854	3		K44-4	223				.31	YES		49	
			K45-15	224				.31	YES		49	
A 855	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 855A	2		SHLD A855					.25	NO			
			E73-8	236				.38	NO			
A 855L			K44-10	223				.31	YES			
			K59-16	249				.31	YES			
A 855R			K44-7	223				.31	YES			
			K59-19	249				.31	YES			
A 856	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 152 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 856A	2		SHLD A856					.25	NO			
			E73-8	236				.38	NO			
A 856L			K44-11	223				.31	YES		49	
			TB11-16D	37				.19	NO		42	
A 856R			K44-8	223				.31	YES		49	
			TB11-15D	37				.19	NO		42	
A 857	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 857A	2		SHLD A857					.25	NO			
			E73-8	236				.38	NO			
A 857L			K44-16	223				.31	YES			
			K59-10	249				.31	YES			
A 857R			K44-13	223				.31	YES			
			K59-13	249				.31	YES			
A 858	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 858A	2		SHLD A858					.25	NO			
			E73-8	236				.38	NO			
A 858L			K44-17	223				.31	YES		49	
			TB11-18D	37				.19	NO		42	
A 858R			K44-14	223				.31	YES		49	
			TB11-17D	37				.19	NO		42	
A 859	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 153 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 859A	2		SHLD A859					.25	NO			
			E73-8	236				.38	NO			
A 859L			K45-7	224				.31	YES			
			K59-4	249				.31	YES			
A 859R			K45-4	224				.31	YES			
			K59-7	249				.31	YES			
A 860	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 860A	2		SHLD A860					.25	NO			
			E73-8	236				.38	NO			
A 860L			K45-8	224				.31	YES		49	
			K59-5	249				.31	YES		48	
A 860R			K45-5	224				.31	YES		49	
			K59-8	249				.31	YES		48	
A 861	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 861A	2		SHLD A861					.25	NO			
			E73-8	236				.38	NO			
A 861L			K45-13	224				.31	YES			
			K60-10	250				.31	YES			
A 861R			K45-10	224				.31	YES			
			K60-13	250				.31	YES			
A 862	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B K | SHEET 154 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 862A	2		SHLD A862					.25	NO			
			E73-B	236				.38	NO			
A 862L			K45-14	224				.31	YES		49	
			K60-11	250				.31	YES		48	
A 862R			K45-11	224				.31	YES		49	
			K60-14	250				.31	YES		48	
A 863	3		K46-18	225				.31	YES		49	
			K47-1	226				.31	YES		48	
A 864	3		K46-2	225				.31	YES		49	
			K47-2	226				.31	YES		48	
A 865	3		K47-2	226				.31	YES			
			K64-2	254				.31	YES		48	
A 866	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 866A	2		SHLD A866					.25	NO			
			E75-B	238				.38	NO			
A 866L			K47-14	226				.31	YES		49	
			TB17-4D	261				.19	NO		42	
A 866R			K47-17	226				.31	YES		49	
			TB17-3D	261				.19	NO		42	
A 867	3		K48-18	227				.31	YES		49	
			K49-1	228				.31	YES		49	
A 868	3		K48-2	227				.31	YES		48	
			K49-2	228				.31	YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 869	3		K48-2	227				.31	YES			
			TB7-17D	33				.19	NO		43	
A 870	3		K48-4	227				.31	YES		49	
			K49-15	228				.31	YES		49	
A 871	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 871A	2		SHLD A871					.25	NO			
			E75-B	238				.38	NO			
A 871L			K48-10	227				.31	YES			
			K63-16	253				.31	YES			
A 871R			K48-7	227				.31	YES			
			K63-19	253				.31	YES			
A 872	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 872A	2		SHLD A872					.25	NO			
			E75-B	238				.38	NO			
A 872L			K48-11	227				.31	YES		49	
			TB11-12E	37				.19	NO		42	
A 872R			K48-8	227				.31	YES		49	
			TB11-11E	37				.19	NO		42	
A 873	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 873A	2		SHLD A873					.25	NO			
			E75-B	238				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 873L			K48-16	227				.31	YES			
			K63-10	253				.31	YES			
A 873R			K48-13	227				.31	YES			
			K63-13	253				.31	YES			
A 874	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 874A	2		SHLD A874					.25	NO			
			E75-B	238				.38	NO			
A 874L			K48-17	227				.31	YES		49	
			TB11-10E	37				.19	NO		42	
A 874R			K48-14	227				.31	YES		49	
			TB11-9E	37				.19	NO		42	
A 875	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 875A	2		SHLD A875					.25	NO			
			E75-B	238				.38	NO			
A 875L			K49-7	228				.31	YES			
			K63-4	253				.31	YES			
A 875R			K49-4	228				.31	YES			
			K63-7	253				.31	YES			
A 876	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 876A	2		SHLD A876					.25	NO			
			E75-B	238				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 876L			K49-8	228				.31	YES		49	
			K63-5	253				.31	YES		48	
A 876R			K49-5	228				.31	YES		49	
			K63-8	253				.31	YES		48	
A 877	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 877A	2		SHLD A877					.25	NO			
			E75-B	238				.38	NO			
A 877L			K49-13	228				.31	YES			
			K64-10	254				.31	YES			
A 877R			K49-10	228				.31	YES			
			K64-13	254				.31	YES			
A 878	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 878A	2		SHLD A878					.25	NO			
			E75-B	238				.38	NO			
A 878L			K49-14	228				.31	YES		49	
			K64-11	254				.31	YES		48	
A 878R			K49-11	228				.31	YES		49	
			K64-14	254				.31	YES		48	
A 879	3		K50-18	229				.31	YES		49	
			K51-1	230				.31	YES		48	
A 880	3		K50-2	229				.31	YES		49	
			K51-2	230				.31	YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 881	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 881A	2		SHLD A881 E75-B	 238				.25 .38	NO NO			
A 881L			K50-14 T817-6D	229 261				.31 .19	YES NO		49 42	
A 881R			K50-17 T817-5D	229 261				.31 .19	YES NO		49 42	
A 882	3		K51-1 K67-1	230 257				.31 .31	YES YES		 48	
A 883	3		K51-2 K68-2	230 258				.31 .31	YES YES		 48	
A 884	3		K52-18 K53-1	231 232				.31 .31	YES YES		49 49	
A 885	3		K52-2 K53-2	231 232				.31 .31	YES YES		48 48	
A 886	3		K52-2 T87-16D	231 33				.31 .19	YES NO		 43	
A 887	3		K52-4 K53-15	231 232				.31 .31	YES YES		49 49	
A 888	1		K52-10 T811-14E	231 37				.31 .19	YES NO		49 42	
A 889	1		K52-7 K67-19	231 257				.31 .31	YES YES		49 	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 890	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 890A	2		SHLD A890 E76-B	 240				.25 .38	NO NO			
A 890L			K52-11 K67-17	231 257				.31 .31	YES YES		49 48	
A 890R			K52-8 K67-20	231 257				.31 .31	YES YES		49 48	
A 891	1		K52-13 K67-13	231 257				.31 .31	YES YES		49 	
A 892	1		K52-16 T811-8E	231 37				.31 .19	YES NO		49 42	
A 893	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 893A	2		SHLD A893 E76-B	 240				.25 .38	NO NO			
A 893L			K52-17 K67-11	231 257				.31 .31	YES YES		49 48	
A 893R			K52-14 K67-14	231 257				.31 .31	YES YES		49 48	
A 894	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 894A	2		SHLD A894 E76-B	 240				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 160 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 894L			K53-7 K67-4	232 257				.31 .31	YES YES			
A 894R			K53-4 K67-7	232 257				.31 .31	YES YES			
A 895	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 895A	2		SHLD A895 E76-B	 240				.25 .38	NO NO			
A 895L			K53-8 K67-5	232 257				.31 .31	YES YES		49 48	
A 895R			K53-5 K67-8	232 257				.31 .31	YES YES		49 48	
A 896	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 896A	2		SHLD A896 E76-B	 240				.25 .38	NO NO			
A 896L			K53-13 K68-10	232 258				.31 .31	YES YES			
A 896R			K53-10 K68-13	232 258				.31 .31	YES YES			
A 897	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 897A	2		SHLD A897 E76-B	 240				.25 .38	NO NO			

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MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 897L			K53-14 K68-11	232 258				.31 .31	YES YES		49 48	
A 897R			K53-11 K68-14	232 258				.31 .31	YES YES		49 48	
A 898	3		K54-2 TB7-19E	241 33				.31 .19	YES NO		 43	
A 899	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 899A	2		SHLD A899 E71-B	 234				.25 .38	NO NO			
A 899L			K54-6 K55-8	241 242				.31 .31	YES YES		49 49	
A 899R			K54-3 K55-5	241 242				.31 .31	YES YES		49 49	
A 900	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 900A	2		SHLD A900 E71-B	 234				.25 .38	NO NO			
A 900L			K54-8 K55-7	241 242				.31 .31	YES YES			
A 900R			K54-5 K55-4	241 242				.31 .31	YES YES			
A 901	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	

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MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 901A	2		SHLD A901 E71-B	 234				.25 .38	NO NO			
A 901L			K54-14 K56-7	241 243				.31 .31	YES YES		49	
A 901R			K54-11 K56-4	241 243				.31 .31	YES YES		49 48	
A 902	3		K55-2 T87-19D	242 33				.31 .19	YES NO		49 43	
A 903	3		K56-2 T87-18B	243 33				.31 .19	YES NO		49 43	
A 904	7				2.50 2.00	2.20 1.70				2 1	52, 63, 54 53	
A 904A	2		SHLD A904 E71-B	 234				.25 .38	NO NO			
A 904W			K56-3 E4	243 246				.31 .25	YES YES		49	
A 905	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 905A	2		SHLD A905 E71-B	 234				.25 .38	NO NO			
A 905L			K56-6 E2	243 244				.31 .25	YES YES		49	
A 905R			K56-9 E3	243 245				.31 .25	YES YES		49	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 906	3		K57-15 K58-1	247 248				.31 .31	YES YES		48 49	
A 907	3		K57-2 TB7-18C	247 33				.31 .19	YES NO		48 43	
A 908	3		K57-2 K58-2	247 248				.31 .31	YES YES		49	
A 909	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 909A	2		SHLD A909 E72-B	 235				.25 .38	NO NO			
A 909L			K57-3 K61-3	247 251				.31 .31	YES YES		49 48	
A 909R			K57-6 K61-6	247 251				.31 .31	YES YES		49 48	
A 910	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 910A	2		SHLD A910 F72-B	 235				.25 .38	NO NO			
A 910L			K57-5 K60-11	247 250				.31 .31	YES YES		49	
A 910R			K57-8 K60-14	247 250				.31 .31	YES YES		49	
A 911	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 911A	2		SHLD A911 E72-B	 235				.25 .38	NO NO			
A 911L			K57-9 K61-9	247 251				.31 .31	YES YES		49 48	
A 911R			K57-12 K61-12	247 251				.31 .31	YES YES		49 48	
A 912	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 912A	2		SHLD A912 E72-B	 235				.25 .38	NO NO			
A 912L			K57-11 K59-5	247 249				.31 .31	YES YES		49	
A 912R			K57-14 K59-8	247 249				.31 .31	YES YES		49	
A 913	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 913A	2		SHLD A913 E72-B	 235				.25 .38	NO NO			
A 913L			K58-3 K62-3	248 252				.31 .31	YES YES		49 48	
A 913R			K58-6 K62-6	248 252				.31 .31	YES YES		49 48	
A 914	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	

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MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 914A	2		SHLD A914 E72-B	 235				.25 .38	NO NO			
A 914L			K58-8 K59-11	248 249				.31 .31	YES YES		49	
A 914R			K58-5 K59-14	248 249				.31 .31	YES YES		49	
A 915	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 915A	2		SHLD A915 E72-B	 235				.25 .38	NO NO			
A 915L			K58-9 K62-9	248 252				.31 .31	YES YES		49 48	
A 915R			K58-12 K62-12	248 252				.31 .31	YES YES		49 48	
A 916	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 916A	2		SHLD A916 E72-B	 235				.25 .38	NO NO			
A 916L			K58-11 K59-17	248 249				.31 .31	YES YES		49	
A 916R			K58-14 K59-20	248 249				.31 .31	YES YES		49	
A 917	3		K59-1 K60-1	249 250				.31 .31	YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 166 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 918	3		K59-2 K60-2	249 250				.31 .31	YES YES		48	
A 919	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 919A	2		SHLD A919 E72-8	235				.25 .38	NO NO			
A 919L			K59-11 TB11-18E	249 37				.31 .19	YES NO		48 42	
A 919R			K59-14 TB11-17E	249 37				.31 .19	YES NO		48 42	
A 920	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 920A	2		SHLD A920 E72-8	235				.25 .38	NO NO			
A 920L			K59-17 TB11-16E	249 37				.31 .19	YES NO		48 42	
A 920R			K59-20 TB11-15E	249 37				.31 .19	YES NO		48 42	
A 921	3		K60-2 TB7-18D	250 33				.31 .19	YES NO		43	
A 922	3		K61-15 K62-1	251 252				.31 .31	YES YES		49 49	
A 923	3		K61-2 K62-2	251 252				.31 .31	YES YES		48 49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 167 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 924	3		K61-2 TB7-17B	251 33				.31 .19	YES NO		43	
A 925	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 925A	2		SHLD A925 E74-8	237				.25 .38	NO NO			
A 925L			K61-3 K65-3	251 255				.31 .31	YES YES			
A 925R			K61-6 K65-6	251 255				.31 .31	YES YES			
A 926	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 926A	2		SHLD A926 E74-8	237				.25 .38	NO NO			
A 926L			K61-5 K64-11	251 254				.31 .31	YES YES		49	
A 926R			K61-8 K64-14	251 254				.31 .31	YES YES		49	
A 927	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 927A	2		SHLD A927 E74-8	237				.25 .38	NO NO			
A 927L			K61-9 K65-9	251 255				.31 .31	YES YES			

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 927R			K61-12 K65-12	251 255				.31 .31	YES YES			
A 928	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 928A	2		SHLD A928 E74-8	237				.25 .38	NO NO			
A 928L			K61-11 K63-5	251 253				.31 .31	YES YES		49	
A 928R			K61-14 K63-8	251 253				.31 .31	YES YES		49	
A 929	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 929A	2		SHLD A929 E74-8	237				.25 .38	NO NO			
A 929L			K62-3 K66-3	252 256				.31 .31	YES YES			
A 929R			K62-6 K66-6	252 256				.31 .31	YES YES			
A 930	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 930A	2		SHLD A930 E74-8	237				.25 .38	NO NO			
A 930L			K62-8 K63-11	252 253				.31 .31	YES YES		49 48	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 930R			K62-5 K63-14	252 253				.31 .31	YES YES		49 48	
A 931	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 931A	2		SHLD A931 E74-8	237				.25 .38	NO NO			
A 931L			K62-9 K66-9	252 256				.31 .31	YES YES			
A 931R			K62-12 K66-12	252 256				.31 .31	YES YES			
A 932	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 932A	2		SHLD A932 E74-8	237				.25 .38	NO NO			
A 932L			K62-11 K63-17	252 253				.31 .31	YES YES		49 48	
A 932R			K62-14 K63-20	252 253				.31 .31	YES YES		49 48	
A 933	3		K63-1 K64-1	253 254				.31 .31	YES YES		48	
A 934	3		K63-2 K64-2	253 254				.31 .31	YES YES		48	
A 935	3		K63-7 TB7-17C	253 33				.31 .19	YES NO		43	

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MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 936	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 936A	2		SHLD A936 E74-B	237				.25 .38	NO NO			
A 936L			K63-11 T811-10D	253 37				.31 .19	YES NO		42	
A 936R			K63-14 T811-9D	253 37				.31 .19	YES NO		42	
A 937	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 937A	2		SHLD A937 E74-B	237				.25 .38	NO NO			
A 937L			K63-17 T811-12D	253 37				.31 .19	YES NO		42	
A 937R			K63-20 T811-11D	253 37				.31 .19	YES NO		42	
A 938	3		K65-15 K66-1	255 256				.31 .31	YES YES		49 49	
A 939	3		K65-2 K66-2	255 256				.31 .31	YES YES		48 49	
A 940	3		K65-2 T87-17E	255 33				.31 .19	YES NO		43	
A 941	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 941A	2		SHLD A941 E76-B	240				.25 .38	NO NO			
A 941L			K65-5 K68-14	255 258				.31 .31	YES YES		49	
A 941R			K65-8 K68-11	255 258				.31 .31	YES YES		49	
A 942	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 942A	2		SHLD A942 E76-B	240				.25 .38	NO NO			
A 942L			K65-11 K67-5	255 257				.31 .31	YES YES		49	
A 942R			K65-14 K67-8	255 257				.31 .31	YES YES		49	
A 943	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 943A	2		SHLD A943 E76-B	240				.25 .38	NO NO			
A 943L			K66-5 K67-11	256 257				.31 .31	YES YES		49	
A 943R			K66-8 K67-14	256 257				.31 .31	YES YES		49	
A 944	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 944A	2		SHLD A944 E76-B	240				.25 .38	NO NO			
A 944L			K66-11 K67-17	256 257				.31 .31	YES YES		49	
A 944R			K66-14 K67-20	256 257				.31 .31	YES YES		49	
A 945	3		K67-1 K68-1	257 258				.31 .31	YES YES			
A 946	3		K67-2 K68-2	257 258				.31 .31	YES YES		48	
A 947	3		K67-2 T87-16C	257 33				.31 .19	YES NO		43	
A 948	1		K67-19 T811-8D	257 37				.31 .19	YES NO		42	
A 949	1		K67-16 T811-14D	257 37				.31 .19	YES NO		42	
A 950	3		P1-A K7-7	118 46				.22 .31	NO YES		49	
A 951	3		P1-B T87-16B	118 33				.31 .19	YES NO		93 43	
A 952	1		P1-C K25-8	118 204				.31 .31	YES YES		93 49	
A 953	1		P1-D T81-22	118 103				.22 .25	NO YES			

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MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 954	1		P1-U K25-4	118 204				.22 .31	NO YES		88, 89	
A 955	1		P1-U P4-F	118 117				.22 .22	NO NO			
A 956	1		P1-V K25-1	118 204				.31 .31	YES YES		93 49	
A 957	1		P1-W K25-7	118 204				.22 .31	NO YES		88, 89 49	
A 958	1		P1-X T87-12B	118 33				.31 .19	YES NO		93 42	
A 959	1		P1-W T81-24	118 102				.22 .25	NO YES			
A 960	1		P2-D* K7-1	119 46				.31 .31	YES YES		93 49	
A 961	1		P4-X P6-D*	117 114				.22 .22	NO NO		88, 89	
A 962	1		P4-D* K8-2	117 39				.31 .31	YES YES		93 47	
A 963	1		P6-N K8-13	114 39				.22 .31	NO YES		47	
A 964	1		P6-D* P8-D*	114 115				.22 .22	NO NO		88, 89	
A 965	1		P8-C* P9-A	115 116				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 966	1		P8-D*	115				.31	YES			
			P10-D*	112				.22	NO		88, 89	
A 967	1		P10-D*	112				.22	NO			
			K8-4	39				.31	YES			
A 969	3		TB1-1	111				.25	YES			
			TB6-78	38				.19	NO		43	
A 970	3		TB6-7A	38				.19	NO		39	
			TB7-15B	33				.19	NO		43	
A 971	3		TB7-15C	33				.19	NO		43	
			TB12-1	182				.25	YES			
A 972	6		TB8-16	34				.31	NO		41	
			TB14-16	265				.31	NO		41	
A 973	6		TB8-2	34				.31	NO		41	
			TB16-16	262				.31	NO		41	
A 974	5		TB8-12	34				.19	NO		40	
			TB10-2	36				.19	NO		40	
A 975	6		TB8-14	34				.31	NO		41	
			TB9-2	35				.31	NO		41	
A 976	6		J30-G	314				.41	YES		46	
			TB15-16	264				.31	NO		41	
A 977	4		XF1-2	147				.31	YES			
			TB5-7	59				.19	NO		40	
A 978	6		XF2-2	146				.31	YES			
			TB5-8	57				.31	NO		41	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 979	4		XF3-2	138				.31	YES			
			TB5-9	55				.19	NO		40	
A 980	4		XF4-2	137				.31	YES			
			TB5-10	53				.19	NO		40	
A 981	3		E20-BB	22				.38	NO			
			E80-B	24				.38	NO			
A 982	3		E21-BB	3				.38	NO			
			E79-B	23				.38	NO			
A 983	3		E22-BB	2				.38	NO			
			E79-B	23				.38	NO			
A 984	3		E23-BB	4				.38	NO			
			E79-B	23				.38	NO			
A 985	3		E24-BB	6				.38	NO			
			E79-B	23				.38	NO			
A 986	3		E25-BB	7				.38	NO			
			E79-B	23				.38	NO			
A 987	3		E26-BB	9				.38	NO			
			E31-B	11				.38	NO			
A 988	3		E27-BB	10				.38	NO			
			E31-B	11				.38	NO			
A 989	3		E28-BB	14				.38	NO			
			E31-B	11				.38	NO			
A 990	3		E29-BB	15				.38	NO			
			E31-B	11				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 991	3		E30-BB	13				.38	NO			
			E31-B	11				.38	NO			
A 992	4		E31-BB	11				.38	NO			
			TB15-6	264				.31	NO		40	
A 993	3		E32-BB	27				.38	NO			
			E80-B	24				.38	NO			
A 994	3		E33-BB	28				.38	NO			
			E80-B	24				.38	NO			
A 995	3		E34-BB	31				.38	NO			
			E80-B	24				.38	NO			
A 996	3		E35-BB	30				.38	NO			
			E80-B	24				.38	NO			
A 997	3		E36-BB	155				.38	NO			
			E39-B	151				.38	NO			
A 998	3		E37-BB	156				.38	NO			
			E39-B	151				.38	NO			
A 999	3		E38-BB	157				.38	NO			
			E39-B	151				.38	NO			
A 1000	4		E39-BB	151				.38	NO			
			TB15-8	264				.19	NO		40	
A 1001	4		E40-BB	169				.38	NO			
			TB15-9	264				.19	NO		40	
A 1002	3		E41-BB	170				.38	NO			
			E40-B	169				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1003	3		E42-BB	171				.38	NO			
			E40-B	169				.38	NO			
A 1004	3		E89-B	162				.38	NO			
			E40-B	169				.38	NO			
A 1005	3		E90-BB	163				.38	NO			
			E40-B	169				.38	NO			
A 1006	3		E45-BB	161A				.38	NO			
			E49-B	164				.38	NO			
A 1007	3		E46-BB	160				.38	NO			
			E49-B	164				.38	NO			
A 1008	3		E47-BB	161				.38	NO			
			E49-B	164				.38	NO			
A 1009	3		E48-BB	167				.38	NO			
			E49-B	164				.38	NO			
A 1010	3		E49-BB	164				.38	NO			
			TB15-10	264				.19	NO		39	
A 1011	3		E50-BB	312				.38	NO			
			E81-B	310				.38	NO			
A 1012	3		E51-BB	313				.38	NO			
			E81-B	310				.38	NO			
A 1013	3		E52-BB	308				.38	NO			
			E81-B	310				.38	NO			
A 1014	3		E53-BB	309				.38	NO			
			E81-B	310				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 178 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1015	3		E54-BB	305				.38	NO			
			E81-B	310				.38	NO			
A 1016	3		E55-BB	306				.38	NO			
			E82-B	272				.38	NO			
A 1017	3		E56-BB	302				.38	NO			
			E88-B	270				.38	NO			
A 1018	3		E57-BB	299				.38	NO			
			E64-B	277				.38	NO			
A 1019	3		E58-BB	297				.38	NO			
			E64-B	277				.38	NO			
A 1020	3		E59-BB	296				.38	NO			
			E82-B	272				.38	NO			
A 1021	3		E60-BB	294				.38	NO			
			E82-B	272				.38	NO			
A 1022	3		E62-BB	292				.38	NO			
			E88-B	270				.38	NO			
A 1023	3		E63-BB	278				.38	NO			
			E64-B	277				.38	NO			
A 1024	4		E64-BB	277				.38	NO			
			TB15-11	264				.19	NO		40	
A 1025	3		E65-BB	276				.38	NO			
			E88-B	270				.38	NO			
A 1026	3		E66-BB	273				.38	NO			
			E88-B	270				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1027	3		E67-BB	269				.38	NO			
			E88-B	270				.38	NO			
A 1028	3		E68-BB	179				.38	NO			
			E77-B	259				.38	NO			
A 1029	3		E69-BB	181				.38	NO			
			E77-B	259				.38	NO			
A 1031	3		E71-BB	234				.38	NO			
			E78-B	239				.38	NO			
A 1032	3		E72-BB	235				.38	NO			
			E78-B	239				.38	NO			
A 1033	3		E73-BB	236				.38	NO			
			E78-B	239				.38	NO			
A 1034	3		E74-BB	237				.38	NO			
			E78-B	239				.38	NO			
A 1035	3		E75-BB	238				.38	NO			
			E78-B	239				.38	NO			
A 1036	3		E76-BB	240				.38	NO			
			E77-B	259				.38	NO			
A 1037	4		F77-BB	259				.38	NO			
			TB15-7	264				.19	NO		40	
A 1038	4		E78-BB	239				.38	NO			
			TB15-5	264				.19	NO		40	
A 1039	4		E79-BB	23				.38	NO			
			TB15-2	264				.19	NO		40	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1040	4		E80-BB	24				.38	NO			
			TB15-4	264				.19	NO		40	
A 1041	4		E81-BB	310				.38	NO			
			TB15-12	264				.19	NO		40	
A 1042	4		E82-BB	272				.38	NO			
			TB15-13	264				.19	NO		40	
A 1047	4		E87-BB	263				.38	NO			
			TB16-6	262				.19	NO		40	
A 1048	4		K6-10	47				.31	YES		47	
			E15	42				.25	YES			
A 1049	4		E88-BB	270				.38	NO			
			TB15-14	264				.19	NO		40	
A 1051	3		E43-BB	152				.38	NO			
			E39-B	151				.38	NO			
A 1052	3		E44-BB	153				.38	NO			
			E39-B	151				.38	NO			
A 1053	3		K47-1	226				.31	YES			
			K63-1	253				.31	YES			
A 1054	9				2.80	2.50				2	52, 63, 55	
					2.80	2.50				1	53	
A 1054A	2		SHLD A1054					.25	NO			
			E65-B	276				.38	NO			
A 1054W			J43-E	275				.22	NO			
			TB6-3D	38				.19	NO		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 181 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1055	10				2.80	2.50				2	50, 64, 56	
					2.80	2.50				1	52	
A 1055A	2		SHLD A1055					.25	NO			
			E33-B	28				.38	NO			
A 1055L			J10-F*	29				.22	NO			
			J34-D	301				.22	NO			
A 1055R			J10-E*	29				.22	NO			
			J34-C	301				.22	NO			
A 1056	7				2.80	2.50				2	52, 63, 54	
					2.80	2.50				1	53	
A 1056A	2		SHLD A1056					.25	NO			
			E33-B	28				.38	NO			
A 1056W			J10-G*	29				.22	NO			
			XF17-2	130				.31	YES			
A 1057	7				2.80	2.50				2	52, 63, 54	
					2.50	2.20				1	53	
A 1057A	2		SHLD A1057					.25	NO			
			E33-B	28				.38	NO			
A 1057W			J10-H*	29				.22	NO			
			XF18-2	129				.31	YES			
A 1060	3		E61-BB	271				.38	NO			
			E82-B	272				.38	NO			
A 1061	3		J31-D*	311				.22	NO			
			TB13-16D	266				.19	NO		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 182 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1062	3		E91-BB	21				.38	NO			
			E79-B	23				.38	NO			
A 1063	1		P10-T	112				.22	NO			
			P11-A	113				.22	NO			
A 1064	1		P10-U	112				.22	NO			
			P11-B	113				.22	NO			
A 1065	1		P10-V	112				.22	NO			
			P11-C	113				.22	NO			
A 1066	1		P10-W	112				.22	NO			
			P11-D	113				.22	NO			
A 1067	1		P10-X	112				.22	NO			
			P11-E	113				.22	NO			
A 1068	1		P10-Y	112				.22	NO			
			P11-F	113				.22	NO			
A 1069	1		P10-Z	112				.22	NO			
			P11-G	113				.22	NO			
A 1070	1		P10-A*	112				.22	NO			
			P11-H	113				.22	NO			
A 1071	1		P10-B*	112				.22	NO			
			P11-J	113				.22	NO			
A 1072	1		P10-C*	112				.22	NO			
			P11-K	113				.22	NO			
A 1073	4		E92-BB	148				.38	NO			
			T816-11	262				.19	NO		40	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B K	SHEET 183 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1074	3		E93-BB	172				.38	NO			
			E40-B	169				.38	NO			
A 1075	3		E94-BB	303				.38	NO			
			E88-B	270				.38	NO			
A 1076	4		J30-K	314				.41	YES		46	
			TB15-3	264				.19	NO		40	
A 1078	3		J9-C	26				.22	NO			
			J26-C	159				.22	NO			
A 1083	3		J7-C	20				.22	NO			
			XF19-1	136				.31	YES			
A 1084	3		J7-D	20				.22	NO			
			TB7-15E	33				.19	NO		43	
A 1085	3		TB7-8D	33				.19	NO		43	
			K54-16	241				.31	YES		48	
A 1086	3		TB7-8E	33				.19	NO		43	
			K42-19	221				.31	YES		48	
A 1087	3		K42-19	221				.31	YES			
			K44-19	223				.31	YES		48	
A 1088	3		K44-19	223				.31	YES			
			K46-19	225				.31	YES		48	
A 1089	3		K46-19	225				.31	YES			
			K48-19	227				.31	YES		48	
A 1090	3		K48-19	227				.31	YES			
			K50-19	229				.31	YES		48	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B K	SHEET 184 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1091	3		K50-19	229				.31	YES			
			K52-19	231				.31	YES		49	
A 1092	3		K54-16	241				.31	YES			
			K57-16	247				.31	YES		48	
A 1093	3		K57-16	247				.31	YES			
			K61-16	251				.31	YES		48	
A 1094	3		K61-16	251				.31	YES			
			K65-16	255				.31	YES		49	
A 1097	3		TB7-12F	33				.19	NO		43	
			K2-12	44				.19	NO		45	
A 1098	3		TB7-11E	33				.19	NO		43	
			XF19-2	136				.31	YES			
A 1099	3		TB7-8C	33				.19	NO		43	
			XF19-2	136				.31	YES			
A 1105	3		TB6-6C	38				.19	NO		43	
			TB8-6	34				.19	NO		39	
A 1106	6		J40-X	290				.41	YES		46	
			TB15-15	264				.31	NO		41	
A 1107	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 1107A	2		SHLD A1107					.25	NO			
			E48-B	167				.38	NO			
A 1107L			J27-C	168				.22	NO			
			J3-FF	8				.22	NO			

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B K	SHEET 185 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1107R			J27-A	168				.22	NO			
			J3-EE	8				.22	NO			
A 1108	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 1108A	2		SHLD A1108					.25	NO			
			E48-B	167				.38	NO			
A 1108L			J25-C	154				.22	NO			
			E6	145				.25	YES			
A 1108R			J25-A	154				.22	NO			
			XF5-1	144				.31	YES			
A 1110	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 1110A	2		SHLD A1110					.25	NO			
			E24-B	6				.38	NO			
A 1110L			J3-L	8				.22	NO			
			J25-J*	154				.22	NO			
A 1110R			J3-X	8				.22	NO			
			J25-I*	154				.22	NO			
A 1111	3		J25-Q*	154				.22	NO			
			TB12-19	191				.25	YES			
A 1112	3		J42-E*	275				.22	NO			
			TB12-17	190				.25	YES			
A 1113	3		J43-F	275				.22	NO			
			K3-10	50				.31	YES		47	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B K	SHEET 186 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1114	3		K3-8	50			.31	YES		47	
			K4-9	49			.31	YES		47	
A 1115	3		K4-10	49			.31	YES		47	
			T814-14	265			.19	NO		39	
A 1116	3		J4-A	12			.22	NO			
			J22-L	158			.22	NO			
A 1117	3		J4-P	12			.22	NO			
			T813-9A	266			.19	NO		43	
A 1118	3		J4-R	12			.22	NO			
			J22-C	158			.22	NO			
A 1119	3		J4-LL	12			.22	NO			
			J33-G	304			.22	NO			
A 1120	3		J4-MM	12			.22	NO			
			J33-H	304			.22	NO			
A 1121	3		J4-NN	12			.22	NO			
			J33-E	304			.22	NO			
A 1122	3		J4-PP	12			.22	NO			
			J33-F	304			.22	NO			
A 1123	9				2.80	2.50			2	52, 63, 55	
					2.00	1.70			1	53	
A 1123A	2		SHLD A1123				.25	NO			
			E33-B	28			.38	NO			
A 1123W			J10-GG	29			.22	NO			
			J34-T	301			.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 187 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1124	3		J10-HH	29			.22	NO			
			T817-12D	261			.19	NO		43	
A 1125	3		J25-N*	154			.22	NO			
			TB11-198	37			.19	NO		43	
A 1126	3		J34-F	301			.22	NO			
			TB11-19C	37			.19	NO		43	
A 1127	3		J31-D	311			.22	NO			
			R2-1	317			.25	YES			
A 1128	3		J31-E	311			.22	NO			
			TBo-6D	38			.19	NO		43	
A 1129	3		J32-D	307			.22	NO			
			R1-1	315			.25	YES			
A 1130	3		J32-E	307			.22	NO			
			TB6-5C	38			.19	NO		43	
A 1132	9				2.80	2.50			2	52, 63, 55	
					2.00	1.70			1	53	
A 1132A	2		SHLD A1132				.25	NO			
			E32-8	27			.38	NO			
A 1132W			J10-N	29			.22	NO			
			J34-M	301			.22	NO			
A 1133	9				2.80	2.50			2	52, 63, 55	
					2.00	1.70			1	53	
A 1133A	2		SHLD A1133				.25	NO			
			E65-8	276			.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 188 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1133W			J43-U	275			.22	NO			
			K8-10	39			.31	YES		47	
A 1134	9				2.80	2.50			2	52, 63, 55	
					2.00	1.70			1	53	
A 1134A	2		SHLD A1134				.25	NO			
			E32-8	27			.38	NO			
A 1134W			J10-M	29			.22	NO			
			J39-T*	291			.22	NO			
A 1135	3		R1-2	316			.25	YES			
			TB6-2C	38			.19	NO		43	
A 1136	3		R2-7	318			.25	YES			
			TB6-3E	38			.19	NO		43	
A 1137	3		J11-G	32			.22	NO			
			E92-8	148			.38	NO			
A 1138	12				1.80	1.50			2	90, 67, 59	
					2.50	2.20			1	50	
A 1138A	2		SHLD A1138				.25	NO			
			E51-B	313			.38	NO			
A 1138L			J31-LL	311			.22	NO			
			J35-N*	300			.22	NO			
A 1138R			J31-KK	311			.22	NO			
			J35-N*	300			.22	NO			
A 1139	12				2.30	2.00			2	90, 67, 59	
					2.50	2.20			1	50	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 189 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1139A	2		SHLD A1139				.25	NO			
			E57-B	299			.38	NO			
A 1139L			J35-H*	300			.22	NO			
			J37-HH	295			.22	NO			
A 1139R			J35-G*	300			.22	NO			
			J37-GG	295			.22	NO			
A 1140	3		J37-JJ	295			.22	NO			
			K28-3	207			.31	YES			
A 1141	3		J31-MM	311			.22	NO			
			K27-3	206			.31	YES			
A 1142	3		E15	42			.25	YES			
			T811-20C	37			.19	NO		43	
A 1143	3		J42-D	279			.22	NO			
			J43-M	275			.22	NO			
A 1144	3		J1-P	1			.22	NO			
			K27-6	206			.31	YES		46	
A 1145	12				2.30	2.00			2	90, 67, 59	
					2.50	2.20			1	50	
A 1145A	2		SHLD A1145				.25	NO			
			E68-8	179			.38	NO			
A 1145L			K19-15	177			.31	YES			
			K30-4	209			.31	YES		49	
A 1145R			K19-17	177			.31	YES		49	
			K30-7	209			.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 190 OF 199

MIL 3064 4-63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD

PARTIAL VIEW E-E

DATUM A

1.38-1.88
TYPICAL STRAIN LOOP
FOR CONNECTORS
J30 THRU J47

E

KEYWAY LOCATION FOR
CONNECTORS J30 THRU J47

J40
290

J39
291

J34
301

J38
293

J33
304

J37
295

J32
307

J36
298

J31
311

J35
300

J30
314

E82
E67
E62
E66
E60
E65
E59
E52
E53
E81
E63
E58
E50
E51
E57
E54
E55

269
272
273
274
276
278
292
294
296
297
299
302
303
305
306
308
309
310
312
313

TB17
261
(68 COND)

TB16
262
(14 COND)

TB15
264
(16 COND)

TB14
265
(7 COND)

TB13
266
(79 COND)

E87
263

DATUM A

SECTION C-C

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	ACSP PR.	WIRING HARNESS "A"	
MATERIAL	DRAWN Manuel R. Valdez 4 FEB 65		
	CHECKED Manning 11 MAR 65		
	APPROVAL Tatum 4 MAR 65		
	APPROVAL		
CONTRACT NAS9-497	NASA APPROVAL	CODE IDENT NO. J	SIZE 1902282
	WT APPROVAL	SCALE FULL	SHEET 90 09 CC

1902282 E SH 90

3/1902282

1902282 B

(SEE SHEET ZONE D-6)

PARTIAL VIEW G-G

PARTIAL VIEW E-E

PARTIAL VIEW F-F

DETAIL A
TYPICAL SPLICE REDUCER

SEE DETAIL A

KEYWAY LOCATIONS FOR CONNECTORS J1 THRU J11

KEYWAY LOCATION FOR CONNECTORS J21 THRU J27

1.38-1.88 TYPICAL STRAIN LOOP FOR CONNECTORS J21 THRU J27

DATUM A

(84) SEE NOTE 11 AND 18

IDENTIFICATION MARK

(SEE SHEET ZONE A-3)

J1 J2 6 J4 12 J5 16 J6 17 J7 20 J8 25 J9 26 J10 29 J11 32 J13 18

J21 149 J22 158 J23 165 J24 173 J25 154 J26 159 J27 168

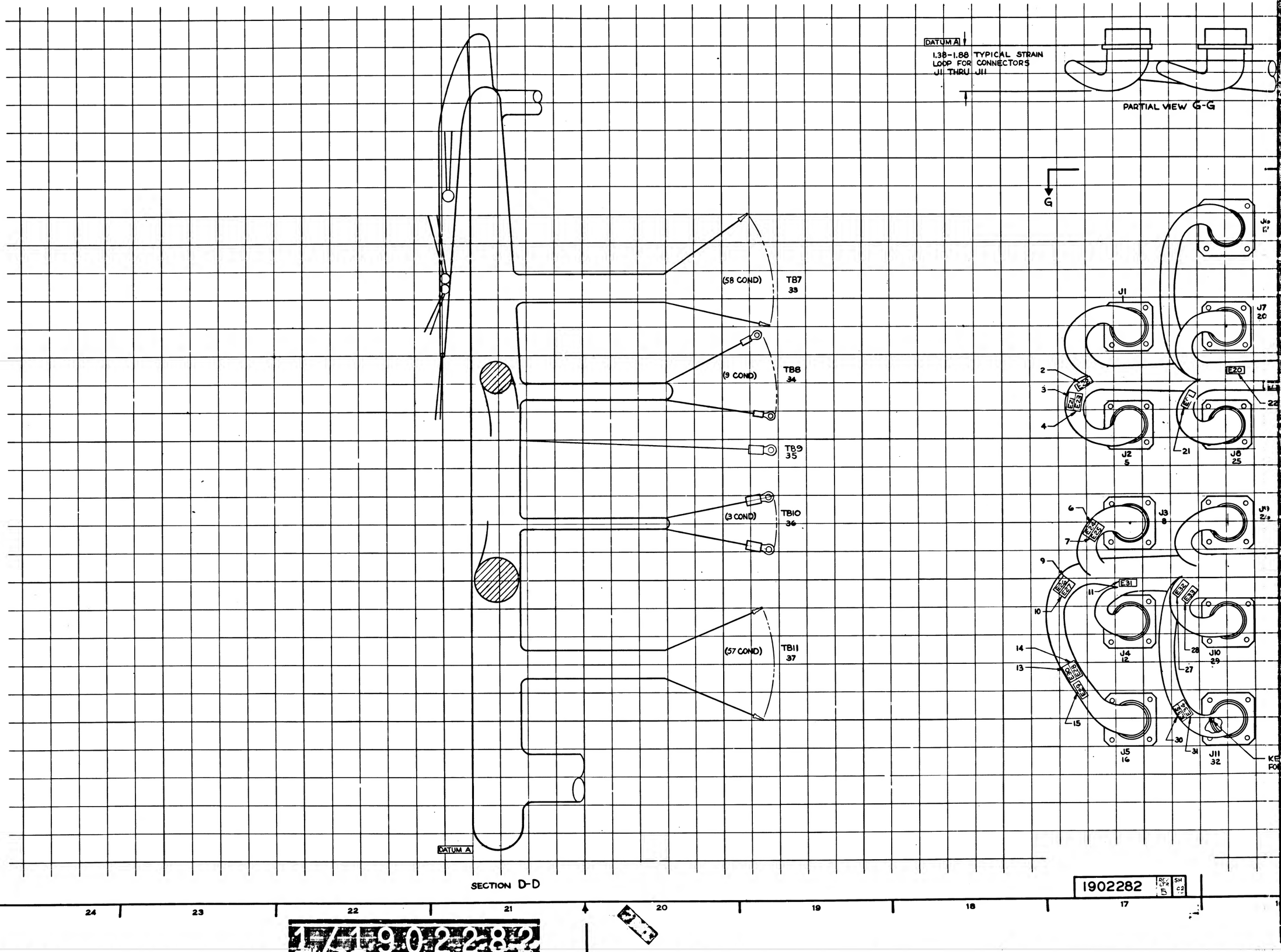
J35 300 J36 298 J37 295 J38 293 J39 291 J40 290 J41 280 J42 279 J43 275 J44 274 J45 268 J46 267 J47 281

XF17 130 XF18 129 XF19 136 (4 COND) XF20 131 XF1 147 XF2 146 XF3 138 XF4 137 XF5 144 E6 145

1902282

2X-1902282

1805585 SH 1 OF 8



SECTION D-D

1902282 REV LTR B SH 6 3

1/1902282

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

UM A

K3 THRU K7

12 COND

K8 39

52 COND

K7 46 — 7 COND

K6 47 — 15 COND

K5 48 — 6 COND

K4 49 — 9 COND

K3 50 — 9 COND

317

315

316

18

TO TYP AL LOOP F/R K7 & 8

3 COND

E15 42

52 51 44

K2

45

41 40 43

K1

TB5

TB4

TB3

TB2

TB1

53 54 55 56 57 58 59 61 63 64 66 68 69 70 71 73 74 75 76 77 78

80 82 83 84 85 86 87 88 90 91 92 93 94 97 98 99 100

102 103 104 105 106 107 108 109 110 111

P10 112

P11 113

P6 114

P8 115

P9 116

P4 117

P1 118

P2 119

P3 120

(84) 9 REQD SEE NOTES 18 & 20

PARTIAL VIEW B-B (SHEET ZONE H-13)

2.75-3.25 STRAIN LOOP FOR K8

PARTIAL SECTION J-J

TION H-H

02282 REV E SH 69

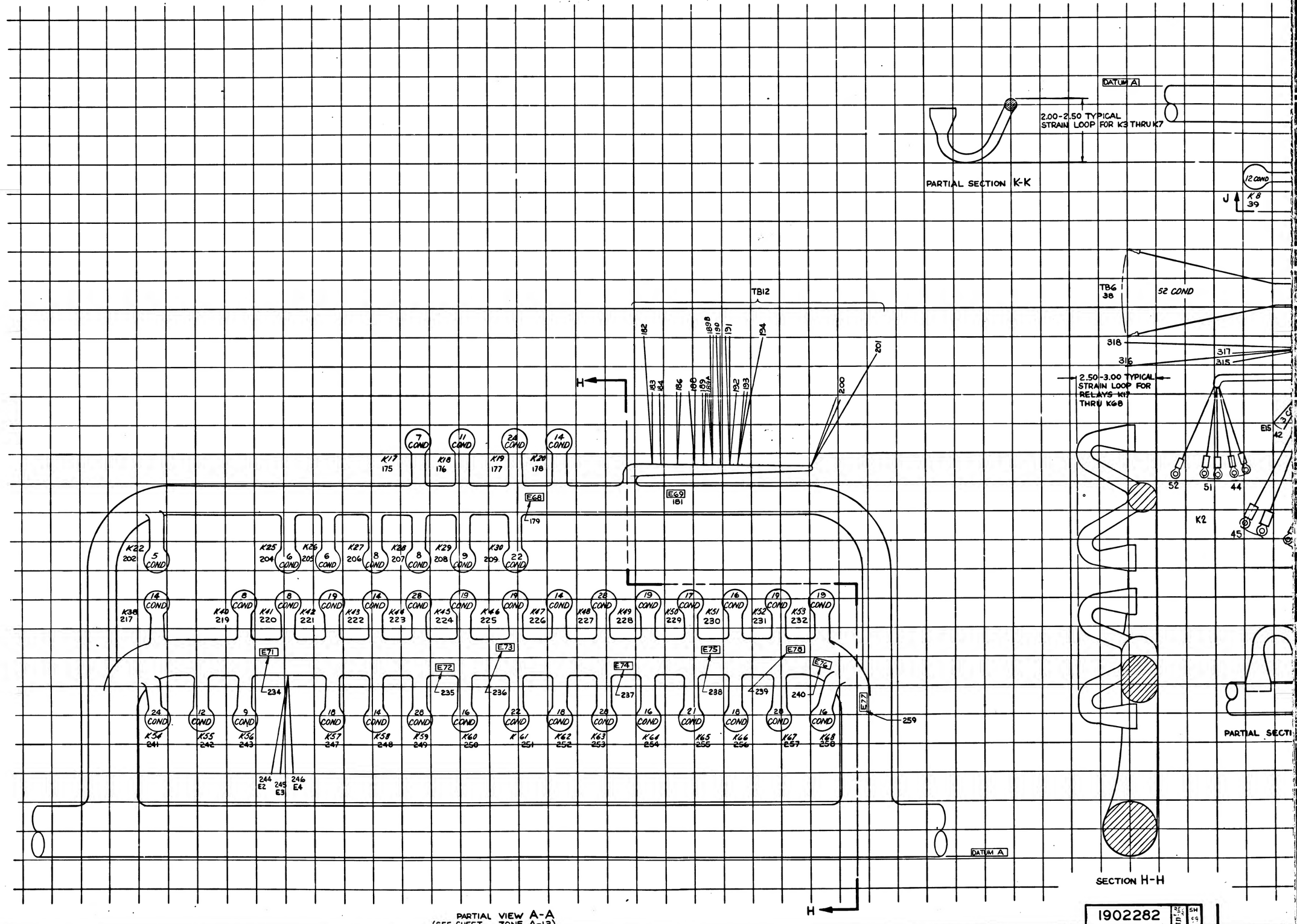
NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS	
APPLICATION		DO NOT SCALE THIS DRAWING	ACSP PH		WIRING HARNESS "A"
		MATERIAL —	DRAWN	4 MAR 65	
			CHECKED	11 MAR 65	
			APPROVAL	11 MAR 65	CODE IDENT NO. 80009 SIZE E 1902282
			APPROVAL	3-29-65	
			NASA APPROVAL		SCALE FULL SHEET 1 OF 69 CC
		CONTRACT NAS 9-197	MIT APPROVAL		

1902282 B

1902282

THIS DRAWING IS THE PROPERTY OF AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN. IT IS LOANED SUBJECT TO RETURN ON DEMAND AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART.

1905595
2NU 1a9



1902282 REV E SH 69

1902282

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
	1901959-011 (M)	B	UPGRADED TO CLASS "A" PER TDRR	22 MAR 65 GB	W.H.
		C	REVISED PER TDRR 21056	27 JUL 65 GB	RTP

R.	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET	4	5	6	7	8	9	10	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
REV STATUS	REV													C	C	B	B	B	B	B	B	C	B	B	B	B
OF SHEETS	SHEET													1	2	3	4	5	6	7	8	9	10	11	12	13

Charleston
15 MAR 65

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Frank R. Miller 4 FEB 65
CHECKED M. McCuiston 11 MAR 65
APPROVAL L. Trimm 11 MAR 65
APPROVAL M. Wilson 3-25-65

WIRING HARNESS "A" GSE JUNCTION BOX

NASA APPROVAL (MSFC) 8 APR 1965
MIT APPROVAL

CODE IDENT NO.	SIZE		REV
	A	1902282	C

CONTRACT NAS 9-497

SCALE NONE

SHEET 1 OF 199

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
40	B	76	B	112	B	148	B	184	B						
41	B	77	B	113	B	149	B	185	B						
42	B	78	B	114	B	150	B	186	B						
43	B	79	B	115	B	151	B	187	B						
44	B	80	B	116	B	152	B	188	B						
45	B	81	B	117	B	153	B	189	B						
46	B	82	B	118	B	154	B	190	B						
47	B	83	B	119	B	155	B	191	B						
48	B	84	B	120	B	156	B	192	B						
49	B	85	B	121	B	157	B	193	B						
50	B	86	B	122	B	158	B	194	B						
51	B	87	B	123	B	159	B	195	B						
52	B	88	B	124	B	160	B	196	B						
53	B	89	B	125	B	161	B	197	C						
54	B	90	B	126	B	162	B	198	B						
55	B	91	B	127	B	163	B	199	B						
56	B	92	B	128	B	164	B								
57	B	93	B	129	B	165	B								
58	B	94	B	130	B	166	B								
59	B	95	B	131	B	167	B								
60	B	96	B	132	B	168	B								
61	B	97	B	133	B	169	B								
62	B	98	B	134	B	170	B								
63	B	99	B	135	B	171	B								
64	B	100	B	136	B	172	B								
65	B	101	B	137	B	173	B								
66	B	102	B	138	B	174	B								
67	B	103	B	139	B	175	B								
68	B	104	B	140	B	176	B								
69	B	105	B	141	B	177	B								
70	B	106	B	142	B	178	B								
71	B	107	B	143	B	179	B								
72	B	108	B	144	B	180	B								
73	B	109	B	145	B	181	B								
74	B	110	B	146	B	182	B								
75	B	111	B	147	B	183	B								

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION C

NASA DRAWING NO. 1902282

SHEET 2 OF 199

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
154	J25	30
155	E36	35, 37
156	E37	36, 38
157	E38	35, 37
158	J22	25
159	J26	19
160	E46	35, 37
161	E47	35, 37
161A	E45	35, 37
162	E89	36, 38
163	E90	36, 38
164	E49	35, 37
165	J23	29
167	E48	36, 38
168	J27	26
169	E40	35, 37
170	E41	36, 38
171	E42	36, 38
172	E93	36, 38
173	J24	20
179	E68	35, 37
181	E69	61, 62

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
234	E71	36, 38
235	E72	36, 38
236	E73	36, 38
237	E74	36, 38
238	E75	36, 38
239	E78	36, 38
240	E76	36, 38
259	E77	35, 37
263	E87	35, 37
267	J46	34
268	J45	71
269	E67	35, 37
270	E88	36, 38
271	E61	35, 37
272	E82	35, 37
273	E66	36, 38
274	J44	32
275	J43	85
276	E65	36, 38
277	E64	35, 37
278	E63	36, 38
279	J42	30

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 3 OF 199

MIL 2084 4-83

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
1	J1	71
2	E22	36, 38
3	E21	36, 38
4	E23	36, 38
5	J2	18
6	E24	35, 37
7	E25	35, 37
8	J3	19
9	E26	36, 38
10	E27	36, 38
11	E31	36, 38
12	J4	20
13	E30	36, 38
14	E28	36, 38
15	E29	36, 38
16	J5	21
17	J6	22
20	J7	23
21	E91	35, 37
22	E20	36, 38
23	E79	36, 38
24	E80	36, 38

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
25	J8	24
26	J9	25
27	E32	36, 38
28	E33	36, 38
29	J10	26
30	E35	35, 37
31	E34	36, 38
32	J11	27
112	P10	78
113	P11	79
114	P6	76
115	P8	80
116	P9	77
117	P4	75
118	P1	73
119	P2	74
120	P3	44
148	E92	35, 37
149	J21	28
151	E39	35, 37
152	E43	35, 37
153	E44	35, 37

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 4 OF 199

MIL 2084 4-83

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
280	J41	20
281	J47	51
290	J40	33
291	J39	29
292	E62	36, 38
293	J38	26
294	E60	36, 38
295	J37	21
296	E59	35, 37
297	E58	36, 38
298	J36	26
299	E57	36, 38
300	J35	25
301	J34	24
302	E56	36, 38
303	E94	36, 38
304	J33	20
305	E54	36, 38
306	E55	36, 38
307	J32	19
308	E52	36, 38
309	E53	35, 37

MULTIPLE CONNECTED ITEMS		
TERM NO.	REF DESIG	ITEM NO.
310	E81	36, 38
311	J31	27
312	E50	36, 38
313	E51	35, 37
314	J30	31

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 5 OF 199

MIL 2084 4-83

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	SHIELD TERMINATION FIG. 1 IS FIGURE 4 OF ND1002206 FIG. 2 IS FIGURE 7 OF ND1002032 FIG. 3 IS FIGURE 5 OF ND1002206
2	ASSEMBLE PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
6	IDENTIFY USING DRAWING NO. .12 INCHES HIGH CHARACTERS BLACK, PER ND1002019
7	IDENTIFY BY CONNECTOR NUMBER, P1, P2, P3, P4, P6, P8, P9, P10, AND P11 AS REQUIRED. .12 INCHES HIGH, CHARACTERS BLACK
8	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
9	MARK SLEEVING ON SHIELD TERMINATIONS OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019
10	LACE HARNESS USING ITEM 81
11	LAST TERMINATION NUMBER IS 318
12	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 82 AND 83.
13	TAPE HARNESS USING ITEM 91 AT POINTS WHERE ABRASION MAY OCCUR.
14	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B *	SHEET 6 OF 199

MIL 2084 4-83

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
16	GRID MODULE IS 1 INCH.
17	UNLESS OTHERWISE SPECIFIED --- FEATURE CENTERLINES ARE LOCATED WITHIN + OR - .25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - .12 INCH.
18	FASTEN MARKER SECURELY WITH ITEM 81. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
19	THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR	TOLERANCE			
	STRIP		CUT	
STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	WIRE	JACKET	WIRE	SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902282-001	WIRE ND1002181 TYPE 1 CLASS 1 24AWG WHT 1297 FT 4 IN. TOTAL LENGTH
2	1	1902282-002	WIRE ND1002181 TYPE 1 CLASS 1 22AWG WHT 3371 FEET TOTAL LENGTH
3	1	1902282-003	WIRE ND1002181 TYPE 1 CLASS 1 20AWG WHT 2861 FT. 6 IN. TOTAL LENGTH
4	1	1902282-004	WIRE ND1002181 TYPE 1 CLASS 1 16AWG WHT 324 FT 7 INCHES TOTAL LENGTH
5	1	1902282-005	WIRE ND1002181 TYPE 1 CLASS 1 14AWG WHT 112 FT TOTAL LENGTH
6	1	1902282-006	WIRE ND1002181 TYPE 1 CLASS 1 12AWG WHT 242 FT 7 INCHES TOTAL LENGTH
7	1	1902282-007	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 24AWG WHT 410 FT 9 IN. TOTAL LENGTH
8	1	1902282-008	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 22AWG WHT 41 FT 9 INCHES TOTAL LENGTH
9	1	1902282-009	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT 20AWG WHT 68 FT 0.0 IN. TOTAL LENGTH
10	1	1902282-010	WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 24AWG (WHT-BLUE, WHT-RED) 2141 FT 6 IN. TOT. LG
11	1	1902282-011	WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 22AWG (WHT-BLUE, WHT-RED) 239 FT 2.0 IN. TOTAL LENGTH
12	1	1902282-012	WIRE ND1002181 TYPE 2 CLASS 4 WHT JKT 20AWG (WHT-BLUE, WHT-RED) 169 FT 7.0 IN. TOTAL LENGTH

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
14	1	1902282-014	WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 24AWG (WHT-BLUE, WHT-RED, WHT-YEL) 227 FT TOTAL LENGTH
15	1	1902282-015	WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 22AWG (WHT-BLUE, WHT-RED, WHT-YEL) 36 FT 6 IN. TOTAL LENGTH
16	1	1902282-016	WIRE ND1002181 TYPE 3 CLASS 4 WHT JKT 20AWG (WHT-BLUE, WHT-RED, WHT-YEL) 54 FT 6 IN. TOT LG
17	1	1902282-017	WIRE ND1002181 TYPE 1 CLASS 1 8AWG WHT 16 FT TOTAL LENGTH
18	1	MS3127E22-55P	(1897053-550) CONNECTOR-RECEPTACLE, ELECTRICAL
19	3	MS3127E24-61SX	(1897056-612) CONNECTOR-RECEPTACLE ELECTRICAL
20	4	MS3127E24-61S	(1897056-610) CONNECTOR-RECEPTACLE, ELECTRICAL
21	2	MS3127E24-61SY	(1897056-613) CONNECTOR-RECEPTACLE ELECTRICAL
22	1	MS3102E28-10P	(1897108-100) CONNECTOR-RECEPTACLE, ELECTRICAL
23	1	MS3127E22-55PX	(1897053-552) CONNECTOR-RECEPTACLE ELECTRICAL
24	2	MS3127E22-55S	(1897054-550) CONNECTOR-RECEPTACLE, ELECTRICAL
25	3	MS3127E24-61P	(1897055-610) CONNECTOR-RECEPTACLE, ELECTRICAL
26	4	MS3127E24-61SW	(1897056-611) CONNECTOR-RECEPTACLE ELECTRICAL
27	2	MS3127E24-61SZ	(1897056-614) CONNECTOR-RECEPTACLE ELECTRICAL
28	.1	MS3102A28-20S	(1896853-200) CONNECTOR-RECEPTACLE, ELECTRICAL

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	29	2	MS3127E22-55SX	(1897054-552) CONNECTOR-RECEPTACLE ELECTRICAL
	30	2	MS3127E24-61PW	(1897055-611) CONNECTOR-RECEPTACLE ELECTRICAL
	31	1	MS3102A28-20SW	(1896853-201) CONNECTOR-RECEPTACLE ELECTRICAL
	32	1	MS3127E22-55SW	(1897054-551) CONNECTOR-RECEPTACLE ELECTRICAL
	33	1	MS3102A36-9S	(1896854-090) CONNECTOR-RECEPTACLE, ELECTRICAL
	34	1	MS3102A36-9SW	(1896854-091) CONNECTOR-RECEPTACLE, ELECTRICAL
15	35	24	1016006-002	SPLICE REDUCER
15	36	45	1016006-003	SPLICE REDUCER
15	37	24	1010490-258	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	38	45	1010490-256	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	39	13	1015902- 3	TERMINAL-LUG
15	40	45	1015902- 8	TERMINAL-LUG
15	41	38	1015902- 12	TERMINAL-LUG
15	42	208	1015966-001	TERMINAL-TIP, CONTACT
15	43	106	1015966-003	TERMINAL-TIP, CONTACT
15	44	1	1016059-102	CONNECTOR
15	45	9	1015902- 49	TERMINAL-LUG
15	46	58	1015864-225	INSULATION-SLEEVING, ELECTRICAL

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
15	47	92	1015864-227	INSULATION-SLEEVING, ELECTRICAL
15	48	150	1015864-165	INSULATION-SLEEVING, ELECTRICAL
15	49	289	1015864-167	INSULATION-SLEEVING, ELECTRICAL
15	50	365	1010490-196	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	51	1	MS3127E14-19S	(1897116-190) CONNECTOR-RECEPTACLE ELECTRICAL
15	52	348	1010490-198	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	53	66	1010490-200	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
15	54	52	1000243-003	FERRULE, ELECTRICAL CONDUCTOR
15	55	14	1000243-004	FERRULE, ELECTRICAL CONDUCTOR
15	56	261	1000243-008	FERRULE, ELECTRICAL CONDUCTOR
15	57	31	1000243-009	FERRULE, ELECTRICAL CONDUCTOR
15	58	5	1015864-226	INSULATION-SLEEVING, ELECTRICAL
15	59	29	1000243-014	FERRULE, ELECTRICAL CONDUCTOR
15	60	4	1000243-015	FERRULE, ELECTRICAL CONDUCTOR
15	61	1	1016006-001	SPLICE REDUCER
15	62	1	1010490-200	INSULATION-SLEEVING, ELECTRICAL HEAT SHRINK
15	63	66	1000242-004	FERRULE, ELECTRICAL CONDUCTOR
15	64	261	1000242-007	FERRULE, ELECTRICAL CONDUCTOR

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
15	65	31	1000242-008	FERRULE, ELECTRICAL CONDUCTOR
15	66	2	1000242-011	FERRULE, ELECTRICAL CONDUCTOR
15	67	29	1000242-012	FERRULE, ELECTRICAL CONDUCTOR
15	68	4	1000242-016	FERRULE, ELECTRICAL CONDUCTOR
15	70	2	1015864-187	INSULATION-SLEEVING, ELECTRICAL
15	71	2	MS3127E22-55PW	(1897053-551) CONNECTOR-RECEPTACLE ELECTRICAL
15	72	2	1016048- 15	TERMINAL-LUG
15	73	1	1016059-100	CONNECTOR
15	74	1	1016059-101	CONNECTOR
15	75	1	1016059-103	CONNECTOR
15	76	1	1016059-105	CONNECTOR
15	77	1	1016059-106	CONNECTOR
15	78	1	1016059-107	CONNECTOR
15	79	1	1016059-108	CONNECTOR
15	80	1	1016059-110	CONNECTOR
	81	AR	MIL-T-713	LACING TAPE TYPE P CLASS 2 BLACK (ES2732 NO. 18)
	82	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	83	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
15	84	10	1016128-001	BAND-IDENTIFICATION BLANK
	85	1	MS3127E24-61PX	(1897055-612) CONNECTOR-RECEPTACLE ELECTRICAL
15	86	20	1000243-011	FERRULE, ELECTRICAL CONDUCTOR
15	87	18	1000242-010	FERRULE, ELECTRICAL CONDUCTOR
15	88	5	1016287-002	ADAPTER-WIRE, SOLDER POT, COPPER CRIMP STYLE
15	89	15	1015864-194	INSULATION-SLEEVING, ELECTRICAL
15	90	33	1010490-194	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
	91	AR	MIL-I-15126F	INSULATION-TAPE, ELECTRICAL, PRESSURE SENSITIVE THERMO SETTING ADHESIVE TYPE ACT .75 PLUS OR MINUS .03 WIDE (ES2716 TYPE C)
15	92	4	1015864-172	INSULATION-SLEEVING, ELECTRICAL
15	93	19	1015864-174	INSULATION-SLEEVING, ELECTRICAL

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 6	3		J1-S*	1				.22	NO			
			K19-1	177				.31	YES		49	
A 7	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 7A	2		SHLD A7					.25	NO			
			E20-B	22				.38	NO			
A 7L			J1-U*	1				.22	NO			
			K18-1	176				.31	YES			
A 7R			J1-T*	1				.22	NO			
			K18-7	176				.31	YES			
A 8	3		J1-V*	1				.22	NO			
			K30-1	209				.25	YES		49	
A 10	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 10A	2		SHLD A10					.25	NO			
			E20-B	22				.38	NO			
A 10L			J1-Z*	1				.22	NO			
			K20-9	178				.31	YES		47	
A 10R			J1-Y*	1				.22	NO			
			K20-13	178				.31	YES		47	
A 11	1		J1-AA	1				.22	NO			
			TB12-22	193				.25	YES			
A 12	1		J1-BB	1				.22	NO			
			K20-2	178				.31	YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	8				2.30	2.00				2	52, 63, 55	
					2.00	1.70				1	53	
A 13A	2		SHLD A13					.25	NO			
			E20-B	22				.38	NO			
A 13W			J1-CC	1				.22	NO			
			K28-3	207				.31	YES		46	
A 14	8				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 14A	2		SHLD A14					.25	NO			
			E20-B	22				.38	NO			
A 14W			J1-DD	1				.22	NO			
			K27-3	206				.31	YES		46	
A 15	3		J1-EE	1				.22	NO			
			TB12-14	189				.25	YES			
A 16	3		J1-FF	1				.22	NO			
			TB12-12	188				.25	YES			
A 17	1		J32-AA	307				.22	NO			
			TB13-12B	266				.19	NO		42	
A 21	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 21A	2		SHLD A21					.25	NO			
			E21-B	3				.38	NO			
A 21L			J2-D	5				.22	NO			
			TB13-2F	266				.19	NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 21R			J2-C	5				.22	NO			
			TB13-1F	266				.19	NO		42	
A 23	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 23A	2		SHLD A23					.25	NO			
			E21-B	3				.38	NO			
A 23L			J2-B*	5				.22	NO			
			K65-3	255				.31	YES		48	
A 23R			J2-A*	5				.22	NO			
			K65-6	255				.31	YES		48	
A 24	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 24A	2		SHLD A24					.25	NO			
			E21-B	3				.38	NO			
A 24L			J2-D*	5				.22	NO			
			K65-9	255				.31	YES		48	
A 24R			J2-C*	5				.22	NO			
			K65-12	255				.31	YES		48	
A 25	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 25A	2		SHLD A25					.25	NO			
			E21-B	3				.38	NO			
A 25L			J2-E*	5				.22	NO			
			K66-3	256				.31	YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25R			J2-F*	5				.22	NO			
			K66-6	256				.31	YES		48	
A 26	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 26A	2		SHLD A26					.25	NO			
			E21-B	3				.38	NO			
A 26L			J2-H*	5				.22	NO			
			K66-9	256				.31	YES		48	
A 26R			J2-G*	5				.22	NO			
			K66-12	256				.31	YES		48	
A 27	1		J33-AA	304				.22	NO			
			TB13-12C	266				.19	NO		42	
A 28	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 28A	2		SHLD A28					.25	NO			
			E22-B	2				.38	NO			
A 28W			J2-N*	5				.22	NO			
			J44-T*	274				.22	NO			
A 29	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 29A	2		SHLD A29					.25	NO			
			E22-B	2				.38	NO			
A 29W			J2-P*	5				.22	NO			
			J44-U*	274				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 30A	2		SHLD A30 E22-B	2				.25 .38	NO NO			
A 30W			J2-Q* J43-Q*	5 275				.22 .22	NO NO			
A 31	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 31A	2		SHLD A31 E22-B	2				.25 .38	NO NO			
A 31W			J2-R* J43-G*	5 275				.22 .22	NO NO			
A 32	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 32A	2		SHLD A32 E22-B	2				.25 .38	NO NO			
A 32W			J2-S* J43-H*	5 275				.22 .22	NO NO			
A 33	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 33A	2		SHLD A33 E22-B	2				.25 .38	NO NO			
A 33W			J2-T* J44-H*	5 274				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34	3		J2-U* J43-M*	5 275				.22 .22	NO NO			
A 35	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 35A	2		SHLD A35 E22-B	2				.25 .38	NO NO			
A 35W			J2-V* J43-N*	5 275				.22 .22	NO NO			
A 36	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 36A	2		SHLD A36 E23-B	4				.25 .38	NO NO			
A 36W			J2-W* J43-N*	5 275				.22 .22	NO NO			
A 37	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 37A	2		SHLD A37 E23-B	4				.25 .38	NO NO			
A 37W			J2-X* J43-P*	5 275				.22 .22	NO NO			
A 38	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 38A	2		SHLD A38 E23-B	4				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 38W			J2-Y* J44-V*	5 274				.22 .22	NO NO			
A 39	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 39A	2		SHLD A39 E23-B	4				.25 .38	NO NO			
A 39W			J2-Z* J44-W*	5 274				.22 .22	NO NO			
A 40	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 40A	2		SHLD A40 E23-B	4				.25 .38	NO NO			
A 40W			J2-AA J44-X*	5 274				.22 .22	NO NO			
A 41	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 41A	2		SHLD A41 E23-B	4				.25 .38	NO NO			
A 41W			J2-BB J44-Y*	5 274				.22 .22	NO NO			
A 45	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 45A	2		SHLD A45 E24-B	6				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 45L			J3-A* K45-12	8 224				.22 .31	NO YES		49	
A 45R			J3-B* K45-9	8 224				.22 .31	NO YES		49	
A 46	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 46A	2		SHLD A46 E24-B	6				.25 .38	NO NO			
A 46L			J3-D* K45-6	8 224				.22 .31	NO YES		49	
A 46R			J3-C* K45-3	8 224				.22 .31	NO YES		49	
A 47	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 47A	2		SHLD A47 E24-B	6				.25 .38	NO NO			
A 47L			J3-F* K44-15	8 223				.22 .31	NO YES		49	
A 47R			J3-E* K44-12	8 223				.22 .31	NO YES		49	
A 48	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 48A	2		SHLD A48 E24-B	6				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 48L			J3-H*	8				.22	NO			
			K44-9	223				.31	YES		49	
A 48R			J3-G*	8				.22	NO			
			K44-6	223				.31	YES		49	
A 49	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 49A	2		SHLD A49					.25	NO			
			E24-B	6				.38	NO			
A 49L			J3-J*	8				.22	NO			
			K49-12	228				.31	YES		49	
A 49R			J3-K*	8				.22	NO			
			K49-9	228				.31	YES		49	
A 50	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 50A	2		SHLD A50					.25	NO			
			E24-B	6				.38	NO			
A 50L			J3-N*	8				.22	NO			
			K49-6	228				.31	YES		49	
A 50R			J3-M*	8				.22	NO			
			K49-3	228				.31	YES		49	
A 51	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 51A	2		SHLD A51					.25	NO			
			E24-B	6				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51L			J3-Q*	8				.22	NO			
			K48-15	227				.31	YES		49	
A 51R			J3-P*	8				.22	NO			
			K48-12	227				.31	YES		49	
A 52	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 52A	2		SHLD A52					.25	NO			
			E24-B	6				.38	NO			
A 52L			J3-S*	8				.22	NO			
			K48-9	227				.31	YES		49	
A 52R			J3-R*	8				.22	NO			
			K48-6	227				.31	YES		49	
A 53	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 53A	2		SHLD A53					.25	NO			
			E25-B	7				.38	NO			
A 53L			J3-U*	8				.22	NO			
			K53-12	232				.31	YES		49	
A 53R			J3-T*	8				.22	NO			
			K53-9	232				.31	YES		49	
A 54	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 54A	2		SHLD A54					.25	NO			
			E25-B	7				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 54L			J3-W*	8				.22	NO			
			K53-6	232				.31	YES		49	
A 54R			J3-V*	8				.22	NO			
			K53-3	232				.31	YES		49	
A 55	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 55A	2		SHLD A55					.25	NO			
			E25-B	7				.38	NO			
A 55L			J3-X*	8				.22	NO			
			K52-15	231				.31	YES		49	
A 55R			J3-Y*	8				.22	NO			
			K52-12	231				.31	YES		49	
A 56	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 56A	2		SHLD A56					.25	NO			
			E25-B	7				.38	NO			
A 56L			J3-BB	8				.22	NO			
			K52-9	231				.31	YES		49	
A 56R			J3-AA	8				.22	NO			
			K52-6	231				.31	YES		49	
A 59	12				2.80	2.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 59A	2		SHLD A59					.25	NO			
			E25-B	7				.38	NO			

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SCALE - NONE	REV LTR B	SHEET 25 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 59L			J3-HH	8				.22	NO			
			E6	145				.25	YES			
A 59R			J3-GG	8				.22	NO			
			XF5-2	144				.31	YES			
A 60	12				3.30	3.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 60A	2		SHLD A60					.25	NO			
			E25-B	7				.38	NO			
A 60L			J3-KK	8				.22	NO			
			TB7-10D	33				.19	YES		43	
A 60R			J3-JJ	8				.22	NO			
			TB7-9D	33				.19	YES		43	
A 62	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 62A	2		SHLD A62					.25	NO			
			E26-B	9				.38	NO			
A 62L			J4-T	12				.22	NO			
			J22-N	158				.22	NO			
A 62R			J4-S	12				.22	NO			
			J22-M	158				.22	NO			
A 63	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 63A	2		SHLD A63					.25	NO			
			E26-B	9				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 26 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	63L		J4-V J22-X	12 158				.22 .22	NO NO			
A	63R		J4-U J22-W	12 158				.22 .22	NO NO			
A	64	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	64A	2	SHLD A64 E26-B	9				.25 .38	NO NO			
A	64L		J4-X J22-V	12 158				.22 .22	NO NO			
A	64R		J4-W J22-U	12 158				.22 .22	NO NO			
A	65	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	65A	2	SHLD A65 E26-B	9				.25 .38	NO NO			
A	65L		J4-Z J22-R	12 158				.22 .22	NO NO			
A	65R		J4-Y J22-P	12 158				.22 .22	NO NO			
A	66	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	66A	2	SHLD A66 E26-B	9				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 27 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	66L		J4-C* J22-T	12 158				.22 .22	NO NO			
A	66R		J4-B* J22-S	12 158				.22 .22	NO NO			
A	67	1	J4-D* TB13-6A	12 266				.22 .19	NO NO		42	
A	68	1	J4-E* TB11-1A	12 37				.22 .19	NO NO		42	
A	69	1	J4-F* J39-R*	12 291				.22 .22	NO NO			
A	70	12			2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A	70A	2	SHLD A70 E26-B	9				.25 .38	NO NO			
A	70L		J4-H* TB11-5D	12 37				.22 .19	NO NO		43	
A	70R		J4-G* TB11-3D	12 37				.22 .19	NO NO		43	
A	71	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	71A	2	SHLD A71 E26-B	9				.25 .38	NO NO			
A	71L		J4-K* TB11-8A	12 37				.22 .19	NO NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	71R		J4-J* T811-7A	12 37				.22 .19	NO NO		42	
A	72	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	72A	2	SHLD A72 E26-B	9				.25 .38	NO NO			
A	72L		J4-N* TB11-14A	12 37				.22 .19	NO NO		42	
A	72R		J4-M* TB11-13A	12 37				.22 .19	NO NO		42	
A	73	10			1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A	73A	2	SHLD A73 E27-B	10				.25 .38	NO NO			
A	73L		J4-Q* K48-16	12 227				.22 .31	NO YES		89	
A	73R		J4-P* K48-13	12 227				.22 .31	NO YES		89	
A	74	10			2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A	74A	2	SHLD A74 E27-B	10				.25 .38	NO NO			
A	74L		J4-S* K48-10	12 227				.22 .31	NO YES		89	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	74R		J4-R* K48-7	12 227				.22 .31	NO YES		89	
A	75	10			2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A	75A	2	SHLD A75 E27-B	10				.25 .38	NO NO			
A	75L		J4-U* K44-16	12 223				.22 .31	NO YES		89	
A	75R		J4-T* K44-13	12 223				.22 .31	NO YES		89	
A	76	10			3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A	76A	2	SHLD A76 E27-B	10				.25 .38	NO NO			
A	76L		J4-W* K44-10	12 223				.22 .31	NO YES		89	
A	76R		J4-V* K44-7	12 223				.22 .31	NO YES		89	
A	77	14			1.80 2.50	1.50 2.20				2 1	50, 65, 57 52	
A	77A	2	SHLD A77 E27-B	10				.25 .38	NO NO			
A	77L		J4-Y* J43-Y*	12 275				.22 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 30 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	77R		J4-X*	12				.22	NO			
			J43-X*	275				.22	NO			
A	77Y		J4-Z*	12				.22	NO			
			J43-Z*	275				.22	NO			
A	78	14			2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A	78A	2	SHLD A78					.25	NO			
			E27-B	10				.38	NO			
A	78L		J4-CC	12				.22	NO			
			J43-GG	275				.22	NO			
A	78R		J4-BB	12				.22	NO			
			J43-FF	275				.22	NO			
A	78Y		J4-DD	12				.22	NO			
			J43-HH	275				.22	NO			
A	79	14			2.80	2.50				2	50, 65, 57	
					2.50	2.20				1	52	
A	79A	2	SHLD A79					.25	NO			
			E27-B	10				.38	NO			
A	79L		J4-EE	12				.22	NO			
			J43-DD	275				.22	NO			
A	79R		J4-FF	12				.22	NO			
			J43-CC	275				.22	NO			
A	79Y		J4-GG	12				.22	NO			
			J43-EE	275				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	80	10			3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	80A	2	SHLD A80					.25	NO			
			E27-B	10				.38	NO			
A	80L		J4-KK	12				.22	NO			
			J43-L	275				.22	NO			
A	80R		J4-JJ	12				.22	NO			
			J43-K	275				.22	NO			
A	81	3	J5-L	16				.22	NO			
			TB11-19A	37				.19	NO		43	
A	82	3	J5-M	16				.22	NO			
			TB16-3	262				.19	NO		39	
A	83	10			2.80	2.50				2	50, 64, 56	
					2.30	2.00				1	52	
A	83A	2	SHLD A83					.25	NO			
			E57-B	299				.38	NO			
A	83L		J35-K*	300				.22	NO			
			TB17-14B	261				.19	NO		42	
A	83R		J35-J*	300				.22	NO			
			TB17-13B	261				.19	NO		42	
A	85	10			1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A	85A	2	SHLD A85					.25	NO			
			E28-B	14				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	85L		J5-D	16				.22	NO			
			K38-13	217				.31	YES		48	
A	85R		J5-C	16				.22	NO			
			K38-10	217				.31	YES		89	
A	86	10			2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	86A	2	SHLD A86					.25	NO			
			E28-B	14				.38	NO			
A	86L		J5-F	16				.22	NO			
			TB13-8A	266				.19	YES		42	
A	86R		J5-E	16				.22	NO			
			TB13-7A	266				.19	YES		42	
A	87	1	J5-J	16				.22	NO			
			J22-Y	158				.22	NO			
A	89	10			3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	89A	2	SHLD A89					.25	NO			
			E28-B	14				.38	NO			
A	89L		J5-P	16				.22	NO			
			J42-I*	279				.22	NO			
A	89R		J5-N	16				.22	NO			
			J42-H*	279				.22	NO			
A	90	10			1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 33 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	90A	2	SHLD A90					.25	NO			
			E28-B	14				.38	NO			
A	90L		J5-S	16				.22	NO			
			K38-7	217				.31	YES		48	
A	90R		J5-R	16				.22	NO			
			K38-4	217				.31	YES		89	
A	91	10			2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	91A	2	SHLD A91					.25	NO			
			E28-B	14				.38	NO			
A	91L		J5-U	16				.22	NO			
			TB6-12D	38				.19	NO		42	
A	91R		J5-T	16				.22	NO			
			TB6-14D	38				.19	NO		42	
A	92	10			2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A	92A	2	SHLD A92					.25	NO			
			E28-B	14				.38	NO			
A	92L		J5-W	16				.22	NO			
			K54-7	241				.31	YES		48	
A	92R		J5-V	16				.22	NO			
			K54-4	241				.31	YES		48	
A	93	10			3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE - NONE | REV LTR B | SHEET 34 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	93A 2		SHLD A93					.25	NO			
			E28-B	14				.38	NO			
A	93L		J5-Y	16				.22	NO			
			J42-K*	279				.22	NO			
A	93R		J5-X	16				.22	NO			
			J42-J*	279				.22	NO			
A	94 10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A	94A 2		SHLD A94					.25	NO			
			E28-B	14				.38	NO			
A	94L		J5-B*	16				.22	NO			
			T86-10D	38				.19	NO		42	
A	94R		J5-A*	16				.22	NO			
			T86-9D	38				.19	NO		42	
A	95 10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	95A 2		SHLD A95					.25	NO			
			E28-B	14				.38	NO			
A	95L		J5-D*	16				.22	NO			
			J22-A*	158				.22	NO			
A	95R		J5-C*	16				.22	NO			
			J22-Z	158				.22	NO			
A	96 10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

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SCALE-NONE	REV LTR B	SHEET 35 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	96A 2		SHLD A96					.25	NO			
			E29-B	15				.38	NO			
A	96L		J5-F*	16				.22	NO			
			J22-E	158				.22	NO			
A	96R		J5-E*	16				.22	NO			
			J22-D	158				.22	NO			
A	97 10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	97A 2		SHLD A97					.25	NO			
			E29-B	15				.38	NO			
A	97L		J5-H*	16				.22	NO			
			J22-G	158				.22	NO			
A	97R		J5-G*	16				.22	NO			
			J22-F	158				.22	NO			
A	98 10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A	98A 2		SHLD A98					.25	NO			
			E29-B	15				.38	NO			
A	98L		J5-K*	16				.22	NO			
			J42-Z	279				.22	NO			
A	98R		J5-J*	16				.22	NO			
			J42-Y	279				.22	NO			
A	99 10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 36 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	99A 2		SHLD A99					.25	NO			
			E29-B	15				.38	NO			
A	99L		J5-N*	16				.22	NO			
			J42-G*	279				.22	NO			
A	99R		J5-M*	16				.22	NO			
			J42-F*	279				.22	NO			
A	100 10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A	100A 2		SHLD A100					.25	NO			
			E29-B	15				.38	NO			
A	100L		J5-Q*	16				.22	NO			
			J42-N*	279				.22	NO			
A	100R		J5-P*	16				.22	NO			
			J42-M*	279				.22	NO			
A	101 10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	101A 2		SHLD A101					.25	NO			
			E29-B	15				.38	NO			
A	101L		J5-S*	16				.22	NO			
			J42-Q*	279				.22	NO			
A	101R		J5-R*	16				.22	NO			
			J42-P*	279				.22	NO			
A	102 10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 37 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	102A 2		SHLD A102					.25	NO			
			E29-B	15				.38	NO			
A	102L		J5-V*	16				.22	NO			
			TB17-6A	261				.19	NO		42	
A	102R		J5-U*	16				.22	NO			
			TB17-5A	261				.19	NO		42	
A	103 10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A	103A 2		SHLD A103					.25	NO			
			E29-B	15				.38	NO			
A	103L		J5-X*	16				.22	NO			
			TB11-14B	37				.19	NO		42	
A	103R		J5-W*	16				.22	NO			
			TB11-13B	37				.19	NO		42	
A	104 10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A	104A 2		SHLD A104					.25	NO			
			E30-B	13				.38	NO			
A	104L		J5-Z*	16				.22	NO			
			TB11-7B	37				.19	NO		42	
A	104R		J5-Y*	16				.22	NO			
			TB11-8B	37				.19	NO		42	
A	105 10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	

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SCALE-NONE	REV LTR B	SHEET 38 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 105A	2		SHLD A105 E30-B	 13				.25 .38	NO NO			
A 105L			J5-BB T817-4C	16 261				.22 .19	NO NO		42	
A 105R			J5-AA T817-3C	16 261				.22 .19	NO NO		42	
A 106	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 106A	2		SHLD A106 E30-B	 13				.25 .38	NO NO			
A 106L			J5-DD K48-10	16 227				.22 .31	NO YES			
A 106R			J5-CC K48-7	16 227				.22 .31	NO YES			
A 107	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 107A	2		SHLD A107 E30-B	 13				.25 .38	NO NO			
A 107L			J5-FF K48-16	16 227				.22 .31	NO YES			
A 107R			J5-EE K48-13	16 227				.22 .31	NO YES			
A 108	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 39 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108A	2		SHLD A108 E30-B	 13				.25 .38	NO NO			
A 108L			J5-HH T817-2C	16 261				.22 .19	NO NO		42	
A 108R			J5-GG T817-1C	16 261				.22 .19	NO NO		42	
A 109	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 109A	2		SHLD A109 E30-B	 13				.25 .38	NO NO			
A 109L			J5-JJ K59-19	16 249				.22 .31	NO YES		48	
A 109R			J5-KK K59-16	16 249				.22 .31	NO YES		48	
A 110	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 110A	2		SHLD A110 E30-B	 13				.25 .38	NO NO			
A 110L			J5-MM K59-10	16 249				.22 .31	NO YES		48	
A 110R			J5-LL K59-13	16 249				.22 .31	NO YES		48	
A 111	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 40 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 111A	2		SHLD A111 E30-B	 13				.25 .38	NO NO			
A 111L			J5-PP K54-13	16 241				.22 .31	NO YES		48	
A 111R			J5-NN K54-10	16 241				.22 .31	NO YES		48	
A 112	3		J6-A E20-B	17 22				.28 .38	YES NO		46	
A 113	17		J6-C TB5-9	17 56				.41 .41	YES NO		70 72	
A 114	17		J6-D TB8-10	17 34				.41 .41	YES NO		70 72	
A 115	4		J6-G TB8-7	17 34				.41 .19	YES NO		46 40	
A 116	4		J6-F TB5-10	17 53				.41 .19	YES NO		46 40	
A 128	3		XF20-2 TB5-7	131 58				.31 .19	YES NO		39	
A 129	3		J7-D* TB8-5	20 34				.22 .19	NO NO		39	
A 130	3		J7-E* J46-A	20 267				.22 .28	NO YES		47	
A 131	3		J7-F* J46-C	20 267				.22 .28	NO YES		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 41 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 132	3		J7-G* J46-F*	20 267				.22 .28	NO YES		47	
A 133	3		J7-H* J40-A*	20 290				.22 .28	NO YES		47	
A 134	3		J7-I* J40-C	20 290				.22 .28	NO YES		47	
A 135	3		J7-J* J40-A	20 290				.22 .28	NO YES		47	
A 136	3		J7-K* TB13-3A	20 266				.22 .19	NO NO		43	
A 137	1		J7-R* K5-6	20 48				.22 .31	NO YES		47	
A 138	1		J7-S* K5-4	20 48				.22 .31	NO YES		46	
A 139	12				1.80 2.50	1.50 2.20				2 1	90, 67, 59 50	
A 139A	2		SHLD A139 E20-B	 22				.25 .38	NO NO			
A 139L			J7-U* TB17-10A	20 261				.22 .19	NO NO		43	
A 139R			J7-T* TB17-9A	20 261				.22 .19	NO NO		43	
A 140	1		J7-V* K4-6	20 49				.22 .31	NO YES		46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 42 OF 199

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 141	1		J7-W*	20				.22	NO			
			K4-4	49				.31	YES		46	
A 142	3		J7-X*	20				.22	NO			
			K6-1	47				.31	YES		47	
A 143	3		J7-Y*	20				.22	NO			
			K1-X1	41				.19	NO		45	
A 144	3		J7-Z*	20				.22	NO			
			K1-X2	41				.19	NO		45	
A 145	3		J7-AA	20				.22	NO			
			XF19-1	136				.31	YES			
A 146	3		J7-BB	20				.22	NO			
			TB7-16E	33				.19	NO		43	
A 147	1		J7-CC	20				.22	NO			
			K3-6	50				.31	YES		47	
A 148	1		J7-DD	20				.22	NO			
			K3-4	50				.31	YES		47	
A 149	3		J7-EE	20				.22	NO			
			K2-11	52				.19	NO		45	
A 150	3		J7-FF	20				.22	NO			
			K2-X1	51				.19	NO		45	
A 151	3		J7-GG	20				.22	NO			
			J40-G	290				.28	YES		47	
A 152	3		J7-HH	20				.22	NO			
			J46-G	267				.28	YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 153	3		J8-T	25				.22	NO			
			J39-M*	291				.22	NO			
A 154	1		J8-U	25				.22	NO			
			J27-LL	168				.22	NO			
A 155	1		J8-V	25				.22	NO			
			J27-Z*	168				.22	NO			
A 160	1		J8-A*	25				.22	NO			
			P11-C*	113				.31	YES			
A 161	1		J8-B*	25				.22	NO			
			P10-A	112				.31	YES			
A 162	1		J8-C*	25				.22	NO			
			P10-B	112				.31	YES			
A 163	1		J8-D*	25				.22	NO			
			P10-C	112				.31	YES			
A 164	1		J8-E*	25				.22	NO			
			P10-D	112				.31	YES			
A 165	1		J8-F*	25				.22	NO			
			P10-E	112				.31	YES			
A 166	1		J8-G*	25				.22	NO			
			P10-F	112				.31	YES			
A 167	1		J8-H*	25				.22	NO			
			P10-G	112				.31	YES			
A 168	1		J8-J*	25				.22	NO			
			P10-H	112				.31	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 44 OF 199

MIL 2064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		J8-K*	25				.22	NO			
			P10-J	112				.31	YES			
A 170	1		J8-M*	25				.22	NO			
			P8-K	115				.31	YES			
A 171	1		J8-N*	25				.22	NO			
			P8-W	115				.31	YES			
A 172	1		J8-P*	25				.22	NO			
			P9-D	116				.31	YES			
A 173	1		J8-Q*	25				.22	NO			
			P9-P	116				.31	YES			
A 174	1		J8-R*	25				.22	NO			
			P9-A*	116				.31	YES			
A 175	1		J8-U*	25				.22	NO			
			K7-5	46				.31	YES		49	
A 176	1		J8-V*	25				.22	NO			
			K7-3	46				.31	YES		49	
A 177	1		J8-X*	25				.22	NO			
			J34-N*	301				.22	NO			
A 178	1		J8-Y*	25				.22	NO			
			J34-P*	301				.22	NO			
A 179	1		J8-Z*	25				.22	NO			
			J34-R*	301				.22	NO			
A 180	1		J8-AA	25				.22	NO			
			J34-V*	301				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 45 OF 199

MIL 2064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	3		J8-BB	25				.22	NO			
			J34-K	301				.22	NO			
A 182	1		J8-CC	25				.22	NO			
			J34-HH	301				.22	NO			
A 183	1		J8-DD	25				.22	NO			
			J39-A*	291				.22	NO			
A 184	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 184A	2		SHLD A184					.25	NO			
			E91-8	21				.38	NO			
A 184W			J8-EE	25				.22	NO			
			J39-D*	291				.22	NO			
A 185	3		J8-FF	25				.22	NO			
			J45-J*	268				.22	NO			
A 186	1		J8-GG	25				.22	NO			
			J39-U*	291				.22	NO			
A 187	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 187A	2		SHLD A187					.25	NO			
			E91-8	21				.38	NO			
A 187W			J8-HH	25				.22	NO			
			J39-X*	291				.22	NO			
A 188	1		J8-J	25				.22	NO			
			J39-Y*	291				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 46 OF 199

MIL 2064 4-69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 189	1		J8-K J39-Z*	25 291				.22 .22	NO NO			
A 190	7				2.80 2.00	2.50 1.70				2 1	52, 63, 54 53	
A 190A	2		SHLD A190 E91-B	21				.25 .38	NO NO			
A 190W			J8-L J39-AA	25 291				.22 .22	NO NO			
A 191	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 191A	2		SHLD A191 E91-B	21				.25 .38	NO NO			
A 191W			J8-M J45-FF	25 288				.22 .22	NO NO			
A 192	1		J8-N J39-FF	25 291				.22 .22	NO NO			
A 193	3		J9-Y K65-1	26 255				.22 .31	NO YES		49	
A 201	3		J9-G* K22-3	26 202				.22 .31	NO YES		49	
A 202	3		J9-H* K22-1	26 202				.22 .31	NO YES		49	
A 203	3		J9-J* K55-1	26 242				.22 .31	NO YES		49	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 47 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 204	3		J9-K* K40-1	26 219				.22 .31	NO YES		49	
A 205	3		J9-M* K41-1	26 220				.22 .31	NO YES		49	
A 206	3		J9-N* K56-1	26 243				.22 .31	NO YES		49	
A 207	3		J9-P* K57-1	26 247				.22 .31	NO YES		49	
A 208	3		J9-Q* K42-1	26 221				.22 .31	NO YES		49	
A 209	3		J9-R* K44-3	26 223				.22 .31	NO YES		49	
A 210	3		J9-S* K44-1	26 223				.22 .31	NO YES		49	
A 211	3		J9-T* K61-1	26 251				.22 .31	NO YES		49	
A 212	3		J9-U* K46-1	26 225				.22 .31	NO YES		49	
A 213	3		J9-V* K48-3	26 227				.22 .31	NO YES		49	
A 214	3		J9-W* K48-1	26 227				.22 .31	NO YES		49	
A 215	3		J9-X* K50-1	26 229				.22 .31	NO YES		49	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 48 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 216	3		J9-Y* K52-3	26 231				.22 .31	NO YES		49	
A 217	3		J9-Z* K52-1	26 231				.22 .31	NO YES		49	
A 220	3		J9-CC J22-W*	26 158				.22 .22	NO NO			
A 223	3		J9-FF J25-E*	26 154				.22 .22	NO NO			
A 224	3		J9-GG J25-F*	26 154				.22 .22	NO NO			
A 225	1		J9-HH TB1-2	26 110				.22 .25	NO YES			
A 226	1		J9-JJ K7-8	26 46				.22 .31	NO YES		49	
A 227	3		J9-KK K54-1	26 241				.22 .31	NO YES		49	
A 232	11				1.80 2.50	1.50 2.20				2 1	50, 87, 86 50	
A 232A	2		SHLD A232 E32-B	27				.25 .38	NO NO			
A 232L			J10-D K42-8	29 221				.22 .31	NO YES		48	
A 232R			J10-C K42-11	29 221				.22 .31	NO YES		48	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 49 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233	11				2.30 2.50	2.00 2.20				2 1	50, 87, 86 50	
A 233A	2		SHLD A233 E32-B	27				.25 .38	NO NO			
A 233L			J10-F K46-8	29 225				.22 .31	NO YES		48	
A 233R			J10-E K46-11	29 225				.22 .31	NO YES		48	
A 234	11				2.80 2.50	2.50 2.20				2 1	50, 87, 86 50	
A 234A	2		SHLD A234 E32-B	27				.25 .38	NO NO			
A 234L			J10-H K50-8	29 229				.22 .31	NO YES		48	
A 234R			J10-G K50-11	29 229				.22 .31	NO YES		48	
A 236	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 236A	2		SHLD A236 E32-B	27				.25 .38	NO NO			
A 236L			J10-U K51-14	29 230				.22 .31	NO YES		48	
A 236R			J10-T K51-17	29 230				.22 .31	NO YES		48	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 50 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 237	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 237A	2		SHLD A237 E32-B	27					.25 NO .38 NO			
A 237L			J10-W K46-14	29 225					.22 NO .31 YES		48	
A 237R			J10-V K46-17	29 225					.22 NO .31 YES		48	
A 238	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 238A	2		SHLD A238 E32-B	27					.25 NO .38 NO			
A 238L			J10-Y K42-14	29 221					.22 NO .31 YES		48	
A 238R			J10-X K42-17	29 221					.22 NO .31 YES		48	
A 239	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 239A	2		SHLD A239 E32-B	27					.25 NO .38 NO			
A 239L			J10-N* K68-10	29 258					.22 NO .31 YES		48	
A 239R			J10-M* K68-13	29 258					.22 NO .31 YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 240	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 240A	2		SHLD A240 E32-B	27					.25 NO .38 NO			
A 240L			J10-Q* K64-13	29 254					.22 NO .31 YES		48	
A 240R			J10-P* K64-10	29 254					.22 NO .31 YES		48	
A 241	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 241A	2		SHLD A241 E33-B	28					.25 NO .38 NO			
A 241L			J10-S* K45-10	29 224					.22 NO .31 YES		48	
A 241R			J10-R* K45-13	29 224					.22 NO .31 YES		48	
A 242	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 242A	2		SHLD A242 E33-B	28					.25 NO .38 NO			
A 242L			J10-U* K67-4	29 257					.22 NO .31 YES		48	
A 242R			J10-T* K67-7	29 257					.22 NO .31 YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 243	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 243A	2		SHLD A243 E33-B	28					.25 NO .38 NO			
A 243L			J10-BB K63-4	29 253					.22 NO .31 YES		48	
A 243R			J10-AA K63-7	29 253					.22 NO .31 YES		48	
A 244	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 244A	2		SHLD A244 E33-B	28					.25 NO .38 NO			
A 244L			J10-DD K45-7	29 224					.22 NO .31 YES		48	
A 244R			J10-CC K45-4	29 224					.22 NO .31 YES		48	
A 249	8				1.80 2.00	1.50 1.70				2 1	52, 63, 55 53	
A 249A	2		SHLD A249 E34-B	31					.25 NO .38 NO			
A 249W			J11-F J25-P*	32 154					.22 NO .22 NO			
A 251	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 53 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251A	2		SHLD A251 E34-B	31					.25 NO .38 NO			
A 251W			J11-H J39-GG	32 291					.22 NO .22 NO			
A 252	1		J11-J E92-B	32 148					.22 NO .38 NO			
A 255	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 255A	2		SHLD A255 E34-B	31					.25 NO .38 NO			
A 255L			J11-P TB7-10C	32 33					.22 NO .19 NO		43	
A 255R			J11-N TB7-9C	32 33					.22 NO .19 NO		43	
A 256	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 256A	2		SHLD A256 E34-B	31					.25 NO .38 NO			
A 256L			J11-S J41-G	32 280					.22 NO .22 NO			
A 256R			J11-R J41-F	32 280					.22 NO .22 NO			
A 257	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 257A	2		SHLD A257					.25	NO			
			E34-B	31				.38	NO			
A 257L			J11-U	32				.22	NO			
			J41-E	280				.22	NO			
A 257R			J11-T	32				.22	NO			
			J41-D	280				.22	NO			
A 258	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 258A	2		SHLD A258					.25	NO			
			E34-B	31				.38	NO			
A 258L			J11-W	32				.22	NO			
			J41-C	280				.22	NO			
A 258R			J11-V	32				.22	NO			
			J41-B	280				.22	NO			
A 259	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 259A	2		SHLD A259					.25	NO			
			E34-B	31				.38	NO			
A 259L			J11-Y	32				.22	NO			
			J27-G*	168				.22	NO			
A 259R			J11-X	32				.22	NO			
			J27-F*	168				.22	NO			
A 260	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 55 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 260A	2		SHLD A260					.25	NO			
			E34-B	31				.38	NO			
A 260L			J11-B*	32				.22	NO			
			J27-I*	168				.22	NO			
A 260R			J11-A*	32				.22	NO			
			J27-H*	168				.22	NO			
A 261	3		J5-K	16				.22	NO			
			TB16-1	262				.19	NO		39	
A 262	1		J8-S	25				.22	NO			
			J34-DD	301				.22	NO			
A 264	3		J24-E	173				.22	NO			
			TB13-14F	266				.19	NO		43	
A 265	1		J25-K*	154				.22	NO			
			TB13-10D	266				.19	NO		42	
A 266	1		J37-CC	295				.22	NO			
			TB13-14A	266				.19	NO		42	
A 267	6		J21-H	149				.41	YES		46	
			TB4-10	80				.31	NO		41	
A 268	12				2.80	2.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 268A	2		SHLD A268					.25	NO			
			E36-B	155				.38	NO			
A 268L			J21-N	149				.25	YES			
			TB17-10D	261				.19	NO		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 56 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 268R			J21-M	149				.25	YES			
			TB17-9D	261				.19	NO		43	
A 269	6		J21-P	149				.41	YES		46	
			TB4-2	87				.31	NO		41	
A 270	10				2.80	2.50				2	50, 64, 56	
					2.80	2.50				1	52	
A 270A	2		SHLD A270					.25	NO			
			E93-B	172				.38	NO			
A 270L			J24-KK	173				.22	NO			
			TB13-20C	266				.19	NO		42	
A 270R			J24-JJ	173				.22	NO			
			TB13-19C	266				.19	NO		42	
A 271	1		J31-K*	311				.22	NO			
			TB17-14C	261				.19	NO		42	
A 272	7				2.30	2.00				2	52, 63, 54	
					2.30	2.00				1	53	
A 272A	2		SHLD A272					.25	NO			
			E94-B	303				.38	NO			
A 272W			J34-A	301				.22	NO			
			XF17-1	130				.31	YES			
A 273	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 273A	2		SHLD A273					.25	NO			
			E94-B	303				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 273W			J34-E	301				.22	NO			
			XF18-1	129				.31	YES			
A 274	3		J34-G	301				.22	NO			
			E87-B	263				.38	NO			
A 275	3		J34-J	301				.22	NO			
			E87-B	263				.38	NO			
A 277	16				2.80	2.50				2	90, 68, 60	
					2.80	2.50				1	50	
A 277A	2		SHLD A277					.25	NO			
			E57-B	299				.38	NO			
A 277L			J35-H	300				.22	NO			
			TB6-10B	38				.19	NO		43	
A 277R			J35-K	300				.22	NO			
			TB6-16A	38				.19	NO		43	
A 277Y			J35-J	300				.22	NO			
			TB6-9B	38				.19	NO		43	
A 278	14				2.80	2.50				2	50, 65, 57	
					2.50	2.20				1	52	
A 278A	2		SHLD A278					.25	NO			
			E57-B	299				.38	NO			
A 278L			J35-T	300				.22	NO			
			TB6-13B	38				.19	NO		42	
A 278R			J35-R	300				.22	NO			
			TB6-14B	38				.19	NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 58 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			J35-S	300				.22	NO			
			TB6-12B	38				.19	NO		42	
A 279	1		J11-I*	32				.22	NO			
			J25-J	154				.22	NO			
A 280	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 280A	2		SHLD A280					.25	NO			
			E34-B	31				.38	NO			
A 280L			J11-D*	32				.22	NO			
			J27-N*	168				.22	NO			
A 280R			J11-C*	32				.22	NO			
			J27-M*	168				.22	NO			
A 281	14				1.80	1.50				2	50, 65, 57	
					2.50	2.20				1	52	
A 281A	2		SHLD A281					.25	NO			
			E34-B	31				.38	NO			
A 281L			J11-G*	32				.22	NO			
			J25-S	154				.22	NO			
A 281R			J11-F*	32				.22	NO			
			J25-P	154				.22	NO			
A 281Y			J11-F*	32				.22	NO			
			J25-R	154				.22	NO			
A 282	3		J11-H*	32				.22	NO			
			J25-CC	154				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 283	1		J11-K*	32				.22	NO			
			J25-H	154				.22	NO			
A 284	1		J11-M*	32				.22	NO			
			J25-FF	154				.22	NO			
A 285	1		J11-N*	32				.22	NO			
			J25-GG	154				.22	NO			
A 286	3		J11-P*	32				.22	NO			
			J25-S*	154				.22	NO			
A 287	3		J11-Q*	32				.22	NO			
			J25-T*	154				.22	NO			
A 288	3		J11-R*	32				.22	NO			
			TB12-19	191				.25	YES			
A 289	3		J11-S*	32				.22	NO			
			TB13-12E	266				.19	NO		43	
A 290	3		J11-T*	32				.22	NO			
			E92-B	148				.38	NO			
A 291	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 291A	2		SHLD A291					.25	NO			
			E35-B	30				.38	NO			
A 291L			J11-V*	32				.22	NO			
			J25-V*	154				.22	NO			
A 291R			J11-U*	32				.22	NO			
			J25-U*	154				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 60 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 292	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 292A	2		SHLD A292					.25	NO			
			E35-B	30				.38	NO			
A 292L			J11-X*	32				.22	NO			
			J25-X*	154				.22	NO			
A 292R			J11-W*	32				.22	NO			
			J25-W*	154				.22	NO			
A 293	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 293A	2		SHLD A293					.25	NO			
			E35-B	30				.38	NO			
A 293L			J11-Z*	32				.22	NO			
			J25-Z*	154				.22	NO			
A 293R			J11-Y*	32				.22	NO			
			J25-Y*	154				.22	NO			
A 294	3		J11-AA	32				.22	NO			
			TB12-17	190				.25	YES			
A 295	3		J11-BB	32				.22	NO			
			TB14-6	265				.19	NO		39	
A 296	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 296A	2		SHLD A296					.25	NO			
			E35-B	30				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 61 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 296L			J11-DD	32				.22	NO			
			J25-H*	154				.22	NO			
A 296R			J11-CC	32				.22	NO			
			J25-G*	154				.22	NO			
A 297	1		J11-LL	32				.22	NO			
			J25-AA	154				.22	NO			
A 298	1		J11-MM	32				.22	NO			
			J25-BB	154				.22	NO			
A 299	1		J11-NN	32				.22	NO			
			J25-DD	154				.22	NO			
A 300	1		J11-PP	32				.22	NO			
			J25-EE	154				.22	NO			
A 301	6		J21-A	149				.41	YES		46	
			TB2-9	91				.31	NO		41	
A 302	6		J21-B	149				.41	YES		46	
			TB2-10	90				.31	NO		41	
A 303	6		J21-C	149				.41	YES		46	
			TB2-3	98				.31	NO		41	
A 304	6		J21-D	149				.41	YES		46	
			TB2-2	99				.31	NO		41	
A 305	6		J21-E	149				.41	YES		46	
			TB16-2	262				.31	NO		41	
A 306	6		J21-F	149				.41	YES		46	
			TB16-4	262				.31	NO		41	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	6		J21-G TB15-1	149 264				.41 .31	YES NO		46 41	
A 308	4		J21-K TB5-4	149 63				.28 .19	YES NO		47 40	
A 309	4		J21-L TB5-3	149 64				.28 .19	YES NO		47 40	
A 310	3		J22-B E37-B	158 156				.22 .38	NO NO			
A 311	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 311A	2		SHLD A311 E37-B	156				.25 .38	NO NO			
A 311L			J22-K K67-10	158 257				.22 .31	NO YES		48	
A 311R			J22-H K67-13	158 257				.22 .31	NO YES		48	
A 312	1		J22-J TB11-7F	158 37				.22 .19	NO NO		42	
A 313	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 313A	2		SHLD A313 E36-B	155				.25 .38	NO NO			
A 313L			J22-G* K44-10	158 223				.22 .31	NO YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313R			J22-B* K44-7	158 223				.22 .31	NO YES			
A 314	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 314A	2		SHLD A314 E36-B	155				.25 .38	NO NO			
A 314L			J22-E* K44-16	158 223				.22 .31	NO YES			
A 314R			J22-D* K44-13	158 223				.22 .31	NO YES			
A 315	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 315A	2		SHLD A315 E36-B	155				.25 .38	NO NO			
A 315L			J22-G* K59-4	158 249				.22 .31	NO YES		48	
A 315R			J22-F* K59-7	158 249				.22 .31	NO YES		48	
A 316	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 316A	2		SHLD A316 E36-B	155				.25 .38	NO NO			
A 316L			J22-I* K60-10	158 250				.22 .31	NO YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 316R			J22-H* K60-13	158 250				.22 .31	NO YES		48	
A 317	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 317A	2		SHLD A317 E37-B	156				.25 .38	NO NO			
A 317L			J22-M* K43-4	158 222				.22 .31	NO YES		49	
A 317R			J22-J* K43-10	158 222				.22 .31	NO YES		49	
A 317Y			J22-K* K43-7	158 222				.22 .31	NO YES		48	
A 318	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 318A	2		SHLD A318 E37-B	156				.25 .38	NO NO			
A 318L			J22-P* K63-16	158 253				.22 .31	NO YES		48	
A 318R			J22-N* K63-19	158 253				.22 .31	NO YES		48	
A 319	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 319A	2		SHLD A319 E37-B	156				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319L			J22-R* K63-10	158 253				.22 .31	NO YES		48	
A 319R			J22-Q* K63-13	158 253				.22 .31	NO YES		48	
A 320	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 320A	2		SHLD A320 E37-B	156				.25 .38	NO NO			
A 320L			J22-T* K49-7	158 228				.22 .31	NO YES		48	
A 320R			J22-S* K49-4	158 228				.22 .31	NO YES		48	
A 321	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 321A	2		SHLD A321 E37-B	156				.25 .38	NO NO			
A 321L			J22-V* K49-13	158 228				.22 .31	NO YES		48	
A 321R			J22-U* K49-10	158 228				.22 .31	NO YES		48	
A 322	1		J22-Y* TB11-13F	158 37				.22 .19	NO NO		42	
A 323	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 323A	2		SHLD A323 E37-B	156			.25 NO .38 NO				
A 323L			J22-Z* K67-16	158 257			.22 NO .31 YES			48	
A 323R			J22-X* K67-19	158 257			.22 NO .31 YES			48	
A 324	10				3.30 2.50	3.00 2.20			2 1	50, 64, 56 52	
A 324A	2		SHLD A324 E38-B	157			.25 NO .38 NO				
A 324L			J22-BB K53-7	158 232			.22 NO .31 YES			48	
A 324R			J22-AA K53-4	158 232			.22 NO .31 YES			48	
A 325	10				1.80 2.50	1.50 2.20			2 1	50, 64, 56 52	
A 325A	2		SHLD A325 E38-B	157			.25 NO .38 NO				
A 325L			J22-DD K53-13	158 232			.22 NO .31 YES			48	
A 325R			J22-CC K53-10	158 232			.22 NO .31 YES			48	
A 326	10				2.30 2.50	2.00 2.20			2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 326A	2		SHLD A326 E38-B	157			.25 NO .38 NO				
A 326L			J22-FF K38-13	158 217			.22 NO .31 YES				
A 326R			J22-EE K38-10	158 217			.22 NO .31 YES				
A 327	10				2.80 2.50	2.50 2.20			2 1	50, 64, 56 52	
A 327A	2		SHLD A327 E38-B	157			.25 NO .38 NO				
A 327L			J22-HH TB13-8B	158 266			.22 NO .19 NO			42	
A 327R			J22-GG TB13-7B	158 266			.22 NO .19 NO			42	
A 328	10				3.30 2.50	3.00 2.20			2 1	50, 64, 56 52	
A 328A	2		SHLD A328 E38-B	157			.25 NO .38 NO				
A 328L			J22-KK K38-7	158 217			.22 NO .31 YES				
A 328R			J22-JJ K38-4	158 217			.22 NO .31 YES				
A 329	10				1.80 2.50	1.50 2.20			2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 68 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329A	2		SHLD A329 E38-B	157			.25 NO .38 NO				
A 329L			J22-MM K54-13	158 241			.22 NO .31 YES				
A 329R			J22-LL K54-10	158 241			.22 NO .31 YES				
A 330	10				2.30 2.50	2.00 2.20			2 1	50, 64, 56 52	
A 330A	2		SHLD A330 E38-B	157			.25 NO .38 NO				
A 330L			J22-RP K54-7	158 241			.22 NO .31 YES				
A 330R			J22-NN K54-4	158 241			.22 NO .31 YES				
A 331	12				1.80 2.50	1.50 2.20			2 1	90, 67, 59 50	
A 331A	2		SHLD A331 E89-B	162			.25 NO .38 NO				
A 331L			J23-B TB13-14D	165 266			.22 NO .19 NO			43	
A 331R			J23-A TB13-13D	165 266			.22 NO .19 NO			43	
A 332	3		J23-C E89-B	165 162			.22 NO .38 NO				

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 333	1		J38-AA TB13-12D	293 266			.22 NO .19 NO			42	
A 334	14				2.30 2.50	2.00 2.20			2 1	50, 65, 57 52	
A 334A	2		SHLD A334 E89-B	162			.25 NO .38 NO				
A 334L			J23-F TB6-13C	165 38			.22 NO .19 NO			42	
A 334R			J23-E TB6-14C	165 38			.22 NO .19 NO			42	
A 334Y			J23-G TB6-12C	165 38			.22 NO .19 NO			42	
A 335	3		J23-H E89-B	165 162			.22 NO .38 NO				
A 336	12				2.80 2.50	2.50 2.20			2 1	90, 67, 59 50	
A 336A	2		SHLD A336 E89-B	162			.25 NO .38 NO				
A 336L			J23-K TB13-18B	165 266			.22 NO .19 NO			43	
A 336R			J23-J TB13-17B	165 266			.22 NO .19 NO			43	
A 337	10				3.30 2.50	3.00 2.20			2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337A	2		SHLD A337 E89-B	 162				.25 .38	NO NO			
A 337L			J23-P J41-M*	165 280				.22 .22	NO NO			
A 337R			J23-N J41-K*	165 280				.22 .22	NO NO			
A 338	3		J23-R E89-B	165 162				.22 .38	NO NO			
A 339	14				1.80 2.50	1.50 2.20				2 1	50, 65, 57 52	
A 339A	2		SHLD A339 E90-B	 163				.25 .38	NO NO			
A 339L			J23-T J41-T	165 280				.22 .22	NO NO			
A 339R			J23-S J41-U	165 280				.22 .22	NO NO			
A 339Y			J23-U J41-S	165 280				.22 .22	NO NO			
A 340	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 340A	2		SHLD A340 E90-B	 163				.25 .38	NO NO			
A 340L			J23-W J35-V	165 300				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 340R			J23-V J35-U	165 300				.22 .22	NO NO			
A 341	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 341A	2		SHLD A341 E90-B	 163				.25 .38	NO NO			
A 341L			J23-Y J35-X	165 300				.22 .22	NO NO			
A 341R			J23-X J35-W	165 300				.22 .22	NO NO			
A 342	16				3.30 2.50	3.00 2.20				2 1	90, 68, 60 50	
A 342A	2		SHLD A342 E90-B	 163				.25 .38	NO NO			
A 342L			J23-C* TB6-10C	165 38				.22 .19	NO NO		43	
A 342R			J23-B* TB6-11C	165 38				.22 .19	NO NO		43	
A 342Y			J23-D* TB6-9C	165 38				.22 .19	NO NO		43	
A 343	11				1.80 2.50	1.50 2.20				2 1	50, 87, 86 50	
A 343A	2		SHLD A343 E90-B	 163				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 343L			J23-F* J41-W	165 280				.22 .22	NO NO			
A 343R			J23-E* J41-V	165 280				.22 .22	NO NO			
A 344	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 344A	2		SHLD A344 E90-B	 163				.25 .38	NO NO			
A 344L			J23-I* J41-X	165 280				.22 .22	NO NO			
A 344R			J23-G* J41-Y	165 280				.22 .22	NO NO			
A 344Y			J23-H* J41-Z	165 280				.22 .22	NO NO			
A 345	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 345A	2		SHLD A345 E90-B	 163				.25 .38	NO NO			
A 345L			J23-K* TB7-4B	165 33				.22 .19	NO NO		42	
A 345R			J23-J* TB7-3B	165 33				.22 .19	NO NO		42	
A 346	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 346A	2		SHLD A346 E90-B	 163				.25 .38	NO NO			
A 346L			J23-N* TB13-5A	165 266				.22 .19	NO NO		42	
A 346R			J23-M* TB13-4A	165 266				.22 .19	NO NO		42	
A 347	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 347A	2		SHLD A347 E90-B	 163				.25 .38	NO NO			
A 347L			J23-S* TB6-4A	165 38				.22 .19	NO NO		42	
A 347R			J23-R* TB6-1A	165 38				.22 .19	NO NO		42	
A 349	16				2.30 2.50	2.00 2.20				2 1	90, 68, 60 50	
A 349A	2		SHLD A349 E42-B	 171				.25 .38	NO NO			
A 349L			J24-B J35-G	173 300				.22 .22	NO NO			
A 349R			J24-A J35-E	173 300				.22 .22	NO NO			
A 349Y			J24-C J35-F	173 300				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350	9				2.80 2.00	2.50 1.70				2 1	52, 63, 55 53	
A 350A	2		SHLD A350 E41-B	170				.25 NO .38 NO				
A 350W			J24-D J44-V	173 274				.22 NO .22 NO				
A 351	14				3.30 2.50	3.00 2.20				2 1	50, 65, 57 52	
A 351A	2		SHLD A351 E41-B	170				.25 NO .38 NO				
A 351L			J24-G J35-V*	173 300				.22 NO .22 NO				
A 351R			J24-F J35-W*	173 300				.22 NO .22 NO				
A 351Y			J24-H J35-X*	173 300				.22 NO .22 NO				
A 352	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 352A	2		SHLD A352 E41-B	170				.25 NO .38 NO				
A 352L			J24-K TB13-208	173 266				.22 NO .19 NO			42	
A 352R			J24-J TB13-198	173 266				.22 NO .19 NO			42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 353	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 353A	2		SHLD A353 E93-B	172				.25 NO .38 NO				
A 353L			J24-M TB6-58	173 38				.22 NO .19 NO			42	
A 353R			J24-L TB6-28	173 38				.22 NO .19 NO			42	
A 356	3		J24-S E93-B	173 172				.22 NO .38 NO				
A 357	3		J24-T E93-B	173 172				.22 NO .38 NO				
A 358	3		J24-U E93-B	173 172				.22 NO .38 NO				
A 359	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 359A	2		SHLD A359 E93-B	172				.25 NO .38 NO				
A 359L			J24-Y J42-CC	173 279				.22 NO .22 NO				
A 359R			J24-Z J42-DD	173 279				.22 NO .22 NO				
A 360	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 360A	2		SHLD A360 E41-B	170				.25 NO .38 NO				
A 360L			J24-B* J42-BB	173 279				.22 NO .22 NO				
A 360R			J24-A* J42-AA	173 279				.22 NO .22 NO				
A 361	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 361A	2		SHLD A361 E41-B	170				.25 NO .38 NO				
A 361L			J24-D* J41-Z*	173 280				.22 NO .22 NO				
A 361R			J24-C* J41-Y*	173 280				.22 NO .22 NO				
A 362	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 362A	2		SHLD A362 E41-B	170				.25 NO .38 NO				
A 362L			J24-F* TB7-6A	173 33				.22 NO .19 NO			42	
A 362R			J24-E* TB7-5A	173 33				.22 NO .19 NO			42	
A 363	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 363A	2		SHLD A363 E41-B	170				.25 NO .38 NO				
A 363L			J24-H* TB17-17A	173 261				.22 NO .19 NO			42	
A 363R			J24-G* TB17-18A	173 261				.22 NO .19 NO			42	
A 364	11				2.80 2.50	2.50 2.20				2 1	50, 87, 86 50	
A 364A	2		SHLD A364 E41-B	170				.25 NO .38 NO				
A 364L			J24-M* J41-CC	173 280				.22 NO .22 NO				
A 364R			J24-K* J41-BB	173 280				.22 NO .22 NO				
A 365	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 365A	2		SHLD A365 E41-B	170				.25 NO .38 NO				
A 365L			J24-P* J42-HH	173 279				.22 NO .22 NO				
A 365R			J24-N* J42-GG	173 279				.22 NO .22 NO				
A 366	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 78 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 366A	2		SHLD A366					.25	NO			
			E42-B	171				.38	NO			
A 366L			J24-R*	173				.22	NO			
			J42-EE	279				.22	NO			
A 366R			J24-Q*	173				.22	NO			
			J42-FF	279				.22	NO			
A 368	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 368A	2		SHLD A368					.25	NO			
			E42-B	171				.38	NO			
A 368L			J24-V*	173				.22	NO			
			J41-EE	280				.22	NO			
A 368R			J24-U*	173				.22	NO			
			J41-DD	280				.22	NO			
A 369	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 369A	2		SHLD A369					.25	NO			
			E42-B	171				.38	NO			
A 369L			J24-X*	173				.22	NO			
			TB13-5B	266				.19	NO		42	
A 369R			J24-W*	173				.22	NO			
			TB13-4B	266				.19	NO		42	
A 370	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	

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SCALE-NONE	REV LTR B	SHEET 79 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 370A	2		SHLD A370					.25	NO			
			E42-B	171				.38	NO			
A 370L			J24-Y*	173				.22	NO			
			TB7-3A	33				.19	NO		42	
A 370R			J24-Z*	173				.22	NO			
			TB7-4A	33				.19	NO		42	
A 371	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 371A	2		SHLD A371					.25	NO			
			E42-B	171				.38	NO			
A 371L			J24-HH	173				.22	NO			
			J41-FF	280				.22	NO			
A 371R			J24-BB	173				.22	NO			
			J41-GG	280				.22	NO			
A 372	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 372A	2		SHLD A372					.25	NO			
			E42-B	171				.38	NO			
A 372L			J24-DD	173				.22	NO			
			TB13-18C	266				.19	NO		42	
A 372R			J24-CC	173				.22	NO			
			TB13-17C	266				.19	NO		42	
A 373	7				2.30	2.00				2	52, 63, 54	
					2.50	2.20				1	53	

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SCALE-NONE	REV LTR B	SHEET 80 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373A	2		SHLD A373					.25	NO			
			E93-B	172				.38	NO			
A 373W			J24-AA	173				.22	NO			
			J41-HH	280				.22	NO			
A 375	14				3.30	3.00				2	57, 65, 50	
					2.50	2.20				1	52	
A 375A	2		SHLD A375					.25	NO			
			E42-B	171				.38	NO			
A 375L			J24-NN	173				.22	NO			
			J35-FF	300				.22	NO			
A 375R			J24-MM	173				.22	NO			
			J35-EE	300				.22	NO			
A 375Y			J24-PP	173				.22	NO			
			J35-GG	300				.22	NO			
A 376	3		J25-B	154				.22	NO			
			E43-B	152				.22	NO			
A 377	7				2.80	2.50				2	52, 63, 54	
					2.80	2.50				1	53	
A 377A	2		SHLD A377					.25	NO			
			E44-B	153				.38	NO			
A 377W			J25-D	154				.22	NO			
			J44-F*	274				.22	NO			
A 378	7				2.80	2.50				2	52, 63, 54	
					2.80	2.50				1	53	

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SCALE-NONE	REV LTR B	SHEET 81 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 378A	2		SHLD A378					.25	NO			
			E44-B	153				.38	NO			
A 378W			J25-E	154				.22	NO			
			J44-G*	274				.22	NO			
A 379	7				2.30	2.00				2	52, 63, 54	
					2.30	2.00				1	53	
A 379A	2		SHLD A379					.25	NO			
			E44-B	153				.38	NO			
A 379W			J25-F	154				.22	NO			
			J44-I*	274				.22	NO			
A 380	7				2.30	2.00				2	52, 63, 54	
					2.30	2.00				1	53	
A 380A	2		SHLD A380					.25	NO			
			E44-B	153				.38	NO			
A 380W			J25-G	154				.22	NO			
			J44-K*	274				.22	NO			
A 383	12				1.80	1.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 383A	2		SHLD A383					.25	NO			
			E43-B	152				.38	NO			
A 383L			J25-N	154				.22	NO			
			TB13-2E	266				.19	NO		43	
A 383R			J25-M	154				.22	NO			
			TB13-1E	266				.19	NO		43	

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SCALE-NONE	REV LTR B	SHEET 82 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	10				2.80 2.50	2.50 2.20			2 1	50, 64, 56 52	
A 385A	2		SHLD A385 E43-B	152				.25 NO .38 NO			
A 385L			J25-U TB11-6D	154 37				.22 NO .19 NO		42	
A 385R			J25-T TB11-4D	154 37				.22 NO .19 NO		42	
A 386	10				3.30 2.50	3.00 2.20			2 1	50, 64, 56 52	
A 386A	2		SHLD A386 E43-B	152				.25 NO .38 NO			
A 386L			J25-W TB17-19D	154 261				.22 NO .19 NO		42	
A 386R			J25-V TB17-20D	154 261				.22 NO .19 NO		42	
A 388	12				2.30 2.50	2.00 2.20			2 1	90, 67, 59 50	
A 388A	2		SHLD A388 E43-B	152				.25 NO .38 NO			
A 388L			J25-B* J3-CC	154 8				.22 NO .22 NO			
A 388R			J25-A* J3-DD	154 8				.22 NO .22 NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 389	3		J25-C* TB13-9B	154 266			.22 NO .19 NO			43	
A 390	3		J25-D* K8-1	154 39			.22 NO .31 YES			46	
A 392	1		J25-M* TB13-11D	154 266			.22 NO .19 NO			42	
A 394	15				1.80 2.50	1.50 2.20			2 1	50, 66, 86 50	
A 394A	2		SHLD A394 E44-B	153			.25 NO .38 NO				
A 394L			J25-KK K47-4	154 226			.22 NO .31 YES			49	
A 394R			J25-HH K47-10	154 226			.22 NO .31 YES			49	
A 394Y			J25-JJ K47-7	154 226			.22 NO .31 YES			48	
A 395	15				2.30 2.50	2.00 2.20			2 1	50, 66, 86 50	
A 395A	2		SHLD A395 E44-B	153			.25 NO .38 NO				
A 395L			J25-NN K51-4	154 230			.22 NO .31 YES			49	
A 395R			J25-LL K51-10	154 230			.22 NO .31 YES			49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 395Y			J25-MM K51-7	154 230			.22 NO .31 YES			48	
A 396	3		J25-PP K22-7	154 202			.22 NO .31 YES			49	
A 397	3		J26-B E47-B	159 161			.22 NO .38 NO				
A 398	14				1.80 2.50	1.50 2.20			3 3	50, 65, 57 50, 65, 57	
A 398A	2		SHLD A398 J26-S	159			.25 NO .22 NO				
A 398B	2		J33-G SHLD A398	304			.22 NO .25 NO				
A 398L			J26-H J33-W*	159 304			.22 NO .22 NO				
A 398R			J26-G J33-V*	159 304			.22 NO .22 NO				
A 398Y			J26-J J33-X*	159 304			.22 NO .22 NO				
A 399	14				2.30 2.50	2.00 2.20			3 3	50, 65, 57 50, 65, 57	
A 399A	2		SHLD A399 J26-A	159			.25 NO .22 NO				
A 399B	2		J38-C SHLD A399	293			.22 NO .25 NO				

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 399L			J26-L J38-W*	159 293			.22 NO .22 NO				
A 399R			J26-K J38-V*	159 293			.22 NO .22 NO				
A 399Y			J26-M J38-X*	159 293			.22 NO .22 NO				
A 400	14				2.80 2.50	2.50 2.20			3 3	50, 65, 57 50, 65, 57	
A 400A	2		SHLD A400 J26-T	159			.25 NO .22 NO				
A 400B	2		J32-C SHLD A400	307			.22 NO .25 NO				
A 400L			J26-P J32-W*	159 307			.22 NO .22 NO				
A 400R			J26-N J32-V*	159 307			.22 NO .22 NO				
A 400Y			J26-R J32-X*	159 307			.22 NO .22 NO				
A 401	12				3.30 2.50	3.00 2.20			2 1	90, 67, 59 50	
A 401A	2		SHLD A401 E45-B	161A			.25 NO .38 NO				
A 401L			J26-V TB7-10B	159 33			.22 NO .19 NO			43	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 401R			J26-U T87-9B	159 33				.22 .19	NO NO		43	
A 402	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 402A	2		SHLD A402 E45-B	161A				.25 .38	NO NO			
A 402W			J26-W J44-J*	159 274				.22 .22	NO NO			
A 405	11				3.30 2.50	3.00 2.20				2 1	50, 87, 86 50	
A 405A	2		SHLD A405 E45-B	161A				.25 .38	NO NO			
A 405L			J26-E* TB13-8C	159 266				.22 .19	NO NO		42	
A 405R			J26-D* TB13-7C	159 266				.22 .19	NO NO		42	
A 407	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 407A	2		SHLD A407 E46-B	160				.25 .38	NO NO			
A 407L			J26-I* K54-14	159 241				.22 .31	NO YES		48	
A 407R			J26-H* K54-11	159 241				.22 .31	NO YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 408	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 408A	2		SHLD A408 E46-B	160				.25 .38	NO NO			
A 408L			J26-K* K55-7	159 242				.22 .31	NO YES		48	
A 408R			J26-J* K55-4	159 242				.22 .31	NO YES		48	
A 409	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 409A	2		SHLD A409 E46-B	160				.25 .38	NO NO			
A 409L			J26-N* K60-4	159 250				.22 .31	NO YES		49	
A 409R			J26-M* K60-7	159 250				.22 .31	NO YES		49	
A 410	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 410A	2		SHLD A410 E46-B	160				.25 .38	NO NO			
A 410L			J26-O* K43-13	159 222				.22 .31	NO YES		49	
A 410R			J26-P* K43-16	159 222				.22 .31	NO YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 411	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 411A	2		SHLD A411 E46-B	160				.25 .38	NO NO			
A 411L			J26-S* K42-7	159 221				.22 .31	NO YES		49	
A 411R			J26-R* K42-10	159 221				.22 .31	NO YES		49	
A 411Y			J26-T* K42-4	159 221				.22 .31	NO YES		49	
A 412	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 412A	2		SHLD A412 E46-B	160				.25 .38	NO NO			
A 412L			J26-V* K64-4	159 254				.22 .31	NO YES		49	
A 412R			J26-U* K64-7	159 254				.22 .31	NO YES		49	
A 413	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 413A	2		SHLD A413 E46-B	160				.25 .38	NO NO			
A 413L			J26-X* K47-13	159 226				.22 .31	NO YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 413R			J26-W* K47-16	159 226				.22 .31	NO YES		49	
A 414	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 414A	2		SHLD A414 E47-B	161				.25 .38	NO NO			
A 414L			J26-Z* K46-13	159 225				.22 .31	NO YES		49	
A 414R			J26-Y* K46-16	159 225				.22 .31	NO YES		49	
A 415	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 415A	2		SHLD A415 E47-B	161				.25 .38	NO NO			
A 415L			J26-CC K46-7	159 225				.22 .31	NO YES		49	
A 415R			J26-BB K46-10	159 225				.22 .31	NO YES		49	
A 415Y			J26-DD K46-4	159 225				.22 .31	NO YES		49	
A 416	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 416A	2		SHLD A416 E47-B	161				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 416L			J26-FF	159				.22	NO			
			K68-4	258				.31	YES		49	
A 416R			J26-EE	159				.22	NO			
			K68-7	258				.31	YES		49	
A 417	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 417A	2		SHLD A417					.25	NO			
			E47-B	161				.38	NO			
A 417L			J26-HH	159				.22	NO			
			K50-13	229				.31	YES		49	
A 417R			J26-GG	159				.22	NO			
			K50-16	229				.31	YES		49	
A 418	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 418A	2		SHLD A418					.25	NO			
			E47-B	161				.38	NO			
A 418L			J26-KK	159				.22	NO			
			K51-13	230				.31	YES		49	
A 418R			J26-JJ	159				.22	NO			
			K51-16	230				.31	YES		49	
A 419	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 419A	2		SHLD A419					.25	NO			
			E47-B	161				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 419L			J26-MM	159				.22	NO			
			K50-7	229				.31	YES		49	
A 419R			J26-LL	159				.22	NO			
			K50-10	229				.31	YES		49	
A 419Y			J26-NN	159				.22	NO			
			K50-4	229				.31	YES		49	
A 420	3		J27-B	168				.22	NO			
			E48-B	167				.38	NO			
A 421	3		J27-M	168				.22	NO			
			J38-A*	293				.22	NO			
A 422	3		J27-N	168				.22	NO			
			J33-A*	304				.22	NO			
A 423	3		J27-P	168				.22	NO			
			J32-L	307				.22	NO			
A 424	1		J27-S	168				.22	NO			
			TB17-8A	261				.19	NO		42	
A 428	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 428A	2		SHLD A428					.25	NO			
			E48-B	167				.38	NO			
A 428L			J27-B*	168				.22	NO			
			J10-PP	29				.22	NO			
A 428R			J27-A*	168				.22	NO			
			J10-NN	29				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 432	3		J27-J*	168				.22	NO			
			E87-B	263				.38	NO			
A 436	7				2.80	2.50				2	52, 63, 54	
					2.30	2.00				1	53	
A 436A	2		SHLD A436					.25	NO			
			E48-B	167				.38	NO			
A 436W			J27-Q*	168				.22	NO			
			J33-I*	304				.22	NO			
A 437	7				2.80	2.50				2	52, 63, 54	
					2.30	2.00				1	53	
A 437A	2		SHLD A437					.25	NO			
			E48-B	167				.38	NO			
A 437W			J27-R*	168				.22	NO			
			J38-I*	293				.22	NO			
A 438	7				2.50	2.20				2	52, 63, 54	
					2.30	2.00				1	53	
A 438A	2		SHLD A438					.25	NO			
			E48-B	167				.38	NO			
A 438W			J27-S*	168				.22	NO			
			J32-I*	307				.22	NO			
A 439	7				2.50	2.20				2	52, 63, 54	
					2.30	2.00				1	53	
A 439A	2		SHLD A439					.25	NO			
			E48-B	167				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 439W			J27-T*	168				.22	NO			
			J32-A*	307				.22	NO			
A 440	1		J27-AA	168				.22	NO			
			TB13-6B	266				.19	NO		42	
A 441	1		J27-BB	168				.22	NO			
			TB11-1B	37				.19	NO		42	
A 442	1		J27-CC	168				.22	NO			
			J45-P*	268				.22	NO			
A 443	1		J27-DD	168				.22	NO			
			J45-Q*	268				.22	NO			
A 444	1		J27-EE	168				.22	NO			
			J45-R*	268				.22	NO			
A 448	1		J27-KK	168				.22	NO			
			J39-CC	291				.22	NO			
A 449	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 449A	2		SHLD A449					.25	NO			
			E48-B	167				.38	NO			
A 449L			J27-NN	168				.22	NO			
			K42-13	221				.31	YES		49	
A 449R			J27-MM	168				.22	NO			
			K42-16	221				.31	YES		49	
A 450	3		J27-PP	168				.22	NO			
			K22-8	202				.31	YES		47	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 451	5		J30-A	314				.41	YES		46	
			TB3-9	69				.19	NO		40	
A 452	5		J30-B	314				.41	YES		46	
			TB3-10	68				.19	NO		40	
A 453	5		J30-C	314				.41	YES		46	
			TB3-3	76				.19	NO		40	
A 454	5		J30-D	314				.41	YES		46	
			TB3-2	77				.19	NO		40	
A 455	6		J30-E	314				.41	YES		46	
			TB14-4	265				.31	NO		41	
A 457	3		J31-B	311				.22	NO			
			E50-B	312				.38	NO			
A 459	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 459A	2		SHLD A459					.25	NO			
			E50-B	312				.38	NO			
A 459L			J31-Z	311				.22	NO			
			TB13-16B	266				.19	NO		42	
A 459R			J31-Y	311				.22	NO			
			TB13-15B	266				.19	NO		42	
A 460	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 460A	2		SHLD A460					.25	NO			
			E50-B	312				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 460L			J31-C*	311				.22	NO			
			TB13-16E	266				.19	NO		42	
A 460R			J31-B*	311				.22	NO			
			TB13-15E	266				.19	NO		42	
A 461	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 461A	2		SHLD A461					.25	NO			
			E50-B	312				.38	NO			
A 461L			J31-F*	311				.22	NO			
			TB17-17B	261				.19	NO		42	
A 461R			J31-E*	311				.22	NO			
			TB17-18B	261				.19	NO		42	
A 462	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 462A	2		SHLD A462					.25	NO			
			E50-B	312				.38	NO			
A 462L			J31-H*	311				.22	NO			
			TB7-6B	33				.19	NO		42	
A 462R			J31-G*	311				.22	NO			
			TB7-5B	33				.19	NO		42	
A 463	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 463A	2		SHLD A463					.25	NO			
			E50-B	312				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 463L			J31-J*	311				.22	NO			
			TB17-14A	261				.19	NO		42	
A 463R			J31-I*	311				.22	NO			
			TB17-13A	261				.19	NO		42	
A 464	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 464A	2		SHLD A464					.25	NO			
			E50-B	312				.38	NO			
A 464L			J31-N*	311				.22	NO			
			J41-R*	280				.22	NO			
A 466R			J31-M*	311				.22	NO			
			J41-Q*	280				.22	NO			
A 465	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 465A	2		SHLD A465					.25	NO			
			E50-B	312				.38	NO			
A 465L			J31-Q*	311				.22	NO			
			J41-T*	280				.22	NO			
A 465R			J31-P*	311				.22	NO			
			J41-S*	280				.22	NO			
A 466	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 466A	2		SHLD A466					.25	NO			
			E50-B	312				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 466L			J31-S*	311				.22	NO			
			J36-BB	298				.22	NO			
A 466R			J31-R*	311				.22	NO			
			J36-AA	298				.22	NO			
A 468	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 468A	2		SHLD A468					.25	NO			
			E50-B	312				.38	NO			
A 468W			J31-T*	311				.22	NO			
			J36-CC	298				.22	NO			
A 469	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 469A	2		SHLD A469					.25	NO			
			E51-B	313				.38	NO			
A 469L			J31-U*	311				.22	NO			
			J42-X*	279				.22	NO			
A 469R			J31-V*	311				.22	NO			
			J42-W*	279				.22	NO			
A 470	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 470A	2		SHLD A470					.25	NO			
			E51-B	313				.38	NO			
A 470L			J31-W*	311				.22	NO			
			J42-Z*	279				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 470R			J31-X*	311				.22	NO			
			J42-Y*	279				.22	NO			
A 471	14				3.30	3.00				3	50, 65, 57	
					2.50	2.20				3	50, 65, 57	
A 471A	2		SHLD A471					.25	NO			
			J31-C	311				.22	NO			
A 471B	2		J36-X	298				.22	NO			
			SHLD A471					.25	NO			
A 471L			J31-Z*	311				.22	NO			
			J36-EE	298				.22	NO			
A 471R			J31-Y*	311				.22	NO			
			J36-DD	298				.22	NO			
A 471Y			J31-AA	311				.22	NO			
			J36-FF	298				.22	NO			
A 472	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 472A	2		SHLD A472					.25	NO			
			E51-B	313				.38	NO			
A 472L			J31-DD	311				.22	NO			
			TB17-16C	261				.19	NO		42	
A 472R			J31-CC	311				.22	NO			
			TB17-15C	261				.19	NO		42	
A 473	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 99 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 473A	2		SHLD A473					.25	NO			
			E51-B	313				.38	NO			
A 473W			J31-EE	311				.22	NO			
			TB13-13B	266				.19	NO		42	
A 474	1		J31-FF	311				.22	NO			
			TB13-14B	266				.19	NO		42	
A 476	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 476A	2		SHLD A476					.25	NO			
			E51-B	313				.38	NO			
A 476L			J31-JJ	311				.22	NO			
			J36-HH	298				.22	NO			
A 476R			J31-HH	311				.22	NO			
			J36-GG	298				.22	NO			
A 478	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 478A	2		SHLD A478					.25	NO			
			E51-B	313				.38	NO			
A 478L			J31-PP	311				.22	NO			
			TB6-5E	38				.19	NO		42	
A 478R			J31-NN	311				.22	NO			
			TB6-2E	38				.19	NO		42	
A 480	3		J32-B	307				.22	NO			
			E52-B	308				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 100 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 482	1		J32-B*	307				.22	NO			
			TB13-10C	266				.19	NO		42	
A 483	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 483A	2		SHLD A483					.25	NO			
			E52-B	308				.38	NO			
A 483L			J32-D*	307				.22	NO			
			TB11-5A	37				.19	NO		42	
A 483R			J32-C*	307				.22	NO			
			TB11-4A	37				.19	NO		42	
A 484	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 484A	2		SHLD A484					.25	NO			
			E52-B	308				.38	NO			
A 484L			J32-F*	307				.22	NO			
			K51-14	230				.31	YES			
A 484R			J32-E*	307				.22	NO			
			K51-17	230				.31	YES			
A 485	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 495A	2		SHLD A485					.25	NO			
			E52-B	308				.38	NO			
A 485L			J32-H*	307				.22	NO			
			TB17-6C	261				.19	NO		42	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 101 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 485R			J32-G*	307				.22	NO			
			TB17-5C	261				.19	NO		42	
A 486	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 486A	2		SHLD A486					.25	NO			
			E52-B	308				.38	NO			
A 486L			J32-K*	307				.22	NO			
			K66-10	256				.31	YES		49	
A 486R			J32-J*	307				.22	NO			
			K66-13	256				.31	YES		49	
A 487	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 487A	2		SHLD A487					.25	NO			
			E52-B	308				.38	NO			
A 487L			J32-N*	307				.22	NO			
			K66-4	256				.31	YES		49	
A 487R			J32-M*	307				.22	NO			
			K66-7	256				.31	YES		49	
A 488	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 488A	2		SHLD A488					.25	NO			
			E52-B	308				.38	NO			
A 488L			J32-Q*	307				.22	NO			
			K68-5	258				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 102 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 488R			J32-P*	307				.22	NO			
			K68-8	258				.31	YES		49	
A 489	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 489A	2		SHLD A489					.25	NO			
			E52-8	308				.38	NO			
A 489L			J32-S*	307				.22	NO			
			K65-10	255				.31	YES		49	
A 489R			J32-R*	307				.22	NO			
			K65-13	255				.31	YES		49	
A 490	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 490A	2		SHLD A490					.25	NO			
			E53-8	309				.38	NO			
A 490L			J32-U*	307				.22	NO			
			K65-4	255				.31	YES		49	
A 490R			J32-T*	307				.22	NO			
			K65-7	255				.31	YES		49	
A 491	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 491A	2		SHLD A491					.25	NO			
			E53-8	309				.38	NO			
A 491L			J32-Z*	307				.22	NO			
			TB17-20B	261				.19	NO		42	

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SCALE-NONE	REV LTR B	SHEET 103 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 491R			J32-Y*	307				.22	NO			
			TB17-19B	261				.19	NO		42	
A 492	10				2.80	2.50				2	50, 64, 56	
					2.80	2.50				1	52	
A 492A	2		SHLD A492					.25	NO			
			E53-8	309				.38	NO			
A 492L			J32-CC	307				.22	NO			
			TB13-2B	266				.19	NO		42	
A 492R			J32-BB	307				.22	NO			
			TB13-1B	266				.19	NO		42	
A 494	1		J32-DD	307				.22	NO			
			TB13-11C	266				.19	NO		42	
A 495	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 495A	2		SHLD A495					.25	NO			
			E53-8	309				.38	NO			
A 495L			J32-EE	307				.22	NO			
			K50-8	229				.31	YES			
A 495R			J32-GG	307				.22	NO			
			K50-11	229				.31	YES			
A 495Y			J32-FF	307				.22	NO			
			K50-5	229				.31	YES		49	
A 496	14				1.80	1.50				2	50, 65, 57	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 104 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 496A	2		SHLD A496					.25	NO			
			E53-8	309				.38	NO			
A 496L			J32-HH	307				.22	NO			
			K51-5	230				.31	YES		49	
A 496R			J32-JJ	307				.22	NO			
			K51-11	230				.31	YES		49	
A 496Y			J32-KK	307				.22	NO			
			K51-7	230				.31	YES			
A 497	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 497A	2		SHLD A497					.25	NO			
			E53-8	309				.38	NO			
A 497L			J32-MM	307				.22	NO			
			TB6-4C	38				.19	NO		42	
A 497R			J32-LL	307				.22	NO			
			TB6-1C	38				.19	NO		42	
A 498	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 498A	2		SHLD A498					.25	NO			
			E53-8	309				.38	NO			
A 498W			J32-NN	307				.22	NO			
			TB11-2C	37				.19	NO		42	
A 499	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 105 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 499A	2		SHLD A499					.25	NO			
			E53-8	309				.38	NO			
A 499W			J32-PP	307				.22	NO			
			TB11-2B	37				.19	NO		42	
A 501	3		J33-B	304				.22	NO			
			E54-8	305				.38	NO			
A 503	1		J33-B*	304				.22	NO			
			TB13-10B	266				.19	NO		42	
A 504	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 504A	2		SHLD A504					.25	NO			
			E54-8	305				.38	NO			
A 504L			J33-D*	304				.22	NO			
			TB11-5B	37				.19	NO		42	
A 504R			J33-C*	304				.22	NO			
			TB11-4B	37				.19	NO		42	
A 505	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 505A	2		SHLD A505					.25	NO			
			E54-8	305				.38	NO			
A 505L			J33-F*	304				.22	NO			
			K46-14	225				.31	YES			
A 505R			J33-E*	304				.22	NO			
			K46-17	225				.31	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 106 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 506	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 506A	2		SHLD A506 E54-B	 305				.25 .38	NO NO			
A 506L			J33-H* T817-4A	304 261				.22 .19	NO NO		 42	
A 506R			J33-G* T817-3A	304 261				.22 .19	NO NO		 42	
A 507	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 507A	2		SHLD A507 E54-B	 305				.25 .38	NO NO			
A 507L			J33-K* K62-10	304 252				.22 .31	NO YES		 49	
A 507R			J33-J* K62-13	304 252				.22 .31	NO YES		 49	
A 508	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 508A	2		SHLD A508 E54-B	 305				.25 .38	NO NO			
A 508L			J33-N* K62-4	304 252				.22 .31	NO YES		 49	
A 508R			J33-M* K62-7	304 252				.22 .31	NO YES		 49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 509	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 509A	2		SHLD A509 E54-B	 305				.25 .38	NO NO			
A 509L			J33-Q* K64-5	304 254				.22 .31	NO YES		 49	
A 509R			J33-P* K64-8	304 254				.22 .31	NO YES		 49	
A 510	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 510A	2		SHLD A510 E54-B	 305				.25 .38	NO NO			
A 510L			J33-S* K61-10	304 251				.22 .31	NO YES		 49	
A 510R			J33-R* K61-13	304 251				.22 .31	NO YES		 49	
A 511	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 511A	2		SHLD A511 E54-B	 305				.25 .38	NO NO			
A 511L			J33-U* K61-4	304 251				.22 .31	NO YES		 49	
A 511R			J33-T* K61-7	304 251				.22 .31	NO YES		 49	

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MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 512	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 512A	2		SHLD A512 E55-B	 306				.25 .38	NO NO			
A 512L			J33-Z* T817-20C	304 261				.22 .19	NO NO		 42	
A 512R			J33-Y* T817-19C	304 261				.22 .19	NO NO		 42	
A 513	10				2.80 2.80	2.50 2.50				2 1	50, 64, 56 52	
A 513A	2		SHLD. A513 E54-B	 305				.25 .38	NO NO			
A 513L			J33-CC T813-2C	304 266				.22 .19	NO NO		 42	
A 513R			J33-BB T813-1C	304 266				.22 .19	NO NO		 42	
A 515	1		J33-DD T813-11B	304 266				.22 .19	NO NO		 42	
A 516	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 516A	2		SHLD A516 E55-B	 306				.25 .38	NO NO			
A 516L			J33-EE K46-8	304 225				.22 .31	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 109 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 516R			J33-GG K46-11	304 225				.22 .31	NO YES			
A 516Y			J33-FF K46-5	304 225				.22 .31	NO YES		 49	
A 517	14				2.80 2.50	2.50 2.20				2 1	50, 65, 57 52	
A 517A	2		SHLD A517 E55-B	 306				.25 .38	NO NO			
A 517L			J33-HH K47-5	304 226				.22 .31	NO YES		 49	
A 517R			J33-JJ K47-11	304 226				.22 .31	NO YES		 49	
A 517Y			J33-KK K47-7	304 226				.22 .31	NO YES			
A 518	11				3.30 2.50	3.00 2.20				2 1	50, 87, 86 50	
A 518A	2		SHLD A518 E55-B	 306				.25 .38	NO NO			
A 518L			J33-MM T86-4D	304 38				.22 .19	NO NO		 42	
A 518R			J33-LL T86-1D	304 38				.22 .19	NO NO		 42	
A 519	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519A	2		SHLD A519					.25	NO			
			E55-B	306				.38	NO			
A 519W			J33-NN	304				.22	NO			
			T811-2E	37				.19	NO		42	
A 520	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 520A	2		SHLD A520					.25	NO			
			E55-B	306				.38	NO			
A 520W			J33-PP	304				.22	NO			
			T811-2D	37				.19	NO		42	
A 521	3		J34-B	301				.22	NO			
			E62-B	292				.38	NO			
A 523	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 523A	2		SHLD A523					.25	NO			
			E56-B	302				.38	NO			
A 523L			J34-R	301				.22	NO			
			T817-12B	261				.19	NO		42	
A 523R			J34-P	301				.22	NO			
			T817-12E	261				.19	NO		42	
A 524	12				2.80	2.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 524A	2		SHLD A524					.25	NO			
			E56-B	302				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 524L			J34-V	301				.22	NO			
			TB17-9B	261				.19	NO		43	
A 524R			J34-U	301				.22	NO			
			TB17-10B	261				.19	NO		43	
A 525	2		J34-W	301				.22	NO			
			TB13-9C	266				.19	NO		43	
A 526	2		J34-X	301				.22	NO			
			J4-M	12				.22	NO			
A 528	3		J34-Z	301				.22	NO			
			K68-1	258				.31	YES		48	
A 529	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 529A	2		SHLD A529					.25	NO			
			E56-B	302				.38	NO			
A 529L			J34-B*	301				.22	NO			
			J39-R	291				.22	NO			
A 529R			J34-A*	301				.22	NO			
			J39-P	291				.22	NO			
A 530	11				3.30	3.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 530A	2		SHLD A530					.25	NO			
			E56-B	302				.38	NO			
A 530L			J34-D*	301				.22	NO			
			J39-T	291				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 112 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 530R			J34-C*	301				.22	NO			
			J39-S	291				.22	NO			
A 531	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 531A	2		SHLD A531					.25	NO			
			E56-B	302				.38	NO			
A 531L			J34-F*	301				.22	NO			
			J39-N	291				.22	NO			
A 531R			J34-E*	301				.22	NO			
			J39-M	291				.22	NO			
A 532	11				2.30	2.00				2	50, 87, 86	
					2.50	2.20				1	50	
A 532A	2		SHLD A532					.25	NO			
			E56-B	302				.38	NO			
A 532L			J34-H*	301				.22	NO			
			T86-5D	38				.19	NO		42	
A 532R			J34-G*	301				.22	NO			
			T86-2D	38				.19	NO		43	
A 533	1		J34-I*	301				.22	NO			
			J39-U	291				.22	NO			
A 534	1		J34-J*	301				.22	NO			
			J39-V	291				.22	NO			
A 535	1		J34-K*	301				.22	NO			
			J39-W	291				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 113 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 536	1		J34-M*	301				.22	NO			
			K60-1	250				.31	YES		48	
A 537	1		J34-Q*	301				.22	NO			
			J39-Y	291				.22	NO			
A 538	1		J34-S*	301				.22	NO			
			J39-Z	291				.22	NO			
A 539	1		J34-T*	301				.22	NO			
			J39-B*	291				.22	NO			
A 540	1		J34-U*	301				.22	NO			
			J39-C*	291				.22	NO			
A 541	3		J34-W*	301				.22	NO			
			K64-1	254				.31	YES		48	
A 542	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 542A	2		SHLD A542					.25	NO			
			E94-B	303				.38	NO			
A 542W			J34-X*	301				.22	NO			
			J39-F*	291				.22	NO			
A 543	3		J34-Y*	301				.22	NO			
			J39-G*	291				.22	NO			
A 544	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 544A	2		SHLD A544					.25	NO			
			E94-B	303				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B 4 | SHEET 114 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 544W			J34-Z*	301				.22	NO			
			J39-H*	291				.22	NO			
A 545	3		J34-AA	301				.22	NO			
			J39-I*	291				.22	NO			
A 546	3		J34-BB	301				.22	NO			
			J39-J*	291				.22	NO			
A 547	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 547A	2		SHLD A547					.25	NO			
			E94-B	303				.38	NO			
A 547W			J34-CC	301				.22	NO			
			J39-K*	291				.22	NO			
A 549	1		J34-EE	301				.22	NO			
			J39-N*	291				.22	NO			
A 550	7				2.30	2.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 550A	2		SHLD A550					.25	NO			
			E94-B	303				.38	NO			
A 550W			J34-FF	301				.22	NO			
			J39-P*	291				.22	NO			
A 551	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 551A	2		SHLD A551					.25	NO			
			E94-B	303				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B A | SHEET 115 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 551W			J34-GG	301				.22	NO			
			J39-Q*	291				.22	NO			
A 552	3		J35-B	300				.22	NO			
			E57-B	299				.38	NO			
A 553	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 553A	2		SHLD A553					.25	NO			
			E57-B	299				.38	NO			
A 553L			J35-M	300				.22	NO			
			TB13-14C	266				.19	NO		42	
A 553R			J35-L	300				.22	NO			
			TB13-13C	266				.19	NO		42	
A 554	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 554A	2		SHLD A554					.25	NO			
			E57-B	299				.38	NO			
A 554L			J35-P	300				.22	NO			
			TB17-16A	261				.19	NO		42	
A 554R			J35-N	300				.22	NO			
			TB17-15A	261				.19	NO		42	
A 555	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 555A	2		SHLD A555					.25	NO			
			E57-B	299				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B A | SHEET 116 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 555L			J35-Z	300				.22	NO			
			TB13-18D	266				.19	NO		42	
A 555R			J35-Y	300				.22	NO			
			TB13-17D	266				.19	NO		42	
A 556	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 556A	2		SHLD A556					.25	NO			
			E57-B	299				.38	NO			
A 556W			J35-D*	300				.22	NO			
			J37-F*	295				.22	NO			
A 557	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 557A	2		SHLD A557					.25	NO			
			E57-B	299				.38	NO			
A 557L			J35-F*	300				.22	NO			
			J37-H*	295				.22	NO			
A 557R			J35-E*	300				.22	NO			
			J37-G*	295				.22	NO			
A 559	1		J35-Q*	300				.22	NO			
			J43-X	275				.22	NO			
A 560	1		J35-Y*	300				.22	NO			
			TB13-3C	266				.19	NO		42	
A 561	3		J36-B	298				.22	NO			
			E58-B	297				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B A | SHEET 117 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 562	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 562A	2		SHLD A562					.25	NO			
			E58-B	297				.38	NO			
A 562L			J36-F*	298				.22	NO			
			K30-15	209				.31	YES		48	
A 562R			J36-E*	298				.22	NO			
			K30-16	209				.31	YES		49	
A 563	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 563A	2		SHLD A563					.25	NO			
			E58-B	297				.38	NO			
A 563L			J36-H*	298				.22	NO			
			K30-18	209				.31	YES		48	
A 563R			J36-G*	298				.22	NO			
			K30-19	209				.31	YES		49	
A 564	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 564A	2		SHLD A564					.25	NO			
			E58-B	297				.38	NO			
A 564L			J36-J*	298				.22	NO			
			K19-15	177				.31	YES		48	
A 564R			J36-I*	298				.22	NO			
			K19-16	177				.31	YES		49	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B A | SHEET 118 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 565	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 565A	2		SHLD A565 E58-B	 297				.25 .38	NO NO			
A 565L			J36-M* K19-18	298 177				.22 .31	NO YES		49	
A 565R			J36-K* K19-19	298 177				.22 .31	NO YES		49	
A 566	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 566A	2		SHLD A566 E58-B	 297				.25 .38	NO NO			
A 566L			J36-P* J37-P*	298 295				.22 .22	NO NO			
A 566R			J36-N* J37-N*	298 295				.22 .22	NO NO			
A 567	7				3.30 2.00	3.00 1.70				2 1	52, 63, 54 53	
A 567A	2		SHLD A567 E58-B	 297				.25 .38	NO NO			
A 567W			J36-Q* J37-Q*	298 295				.22 .22	NO NO			
A 568	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 568A	2		SHLD A568 E58-B	 297				.25 .38	NO NO			
A 568L			J36-S* J37-S*	298 295				.22 .22	NO NO			
A 568R			J36-R* J37-R*	298 295				.22 .22	NO NO			
A 569	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 569A	2		SHLD A569 E58-B	 297				.25 .38	NO NO			
A 569L			J36-U* J37-U*	298 295				.22 .22	NO NO			
A 569R			J36-T* J37-T*	298 295				.22 .22	NO NO			
A 570	14				2.80 2.50	2.50 2.20				3 3	50, 65, 57 50, 65, 57	
A 570A	2		SHLD A570 J36-W	 298				.25 .22	NO NO			
A 570B	2		J37-C SHLD A570	295 				.22 .25	NO NO			
A 570L			J36-W* J37-W*	298 295				.22 .22	NO NO			
A 570R			J36-V* J37-V*	298 295				.22 .22	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 570Y			J36-X* J37-X*	298 295				.22 .22	NO NO			
A 571	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 571A	2		SHLD A571 E58-B	 297				.25 .38	NO NO			
A 571L			J36-Z* J37-FF	298 295				.22 .22	NO NO			
A 571R			J36-Y* J37-EE	298 295				.22 .22	NO NO			
A 573	3		J37-B E61-B	295 271				.22 .38	NO NO			
A 575	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 575A	2		SHLD A575 E61-B	 271				.25 .38	NO NO			
A 575L			J37-Z TB13-16A	295 266				.22 .19	NO NO		42	
A 575R			J37-Y TB13-15A	295 266				.22 .19	NO NO		42	
A 576	10				2.30 2.50	2.00 2.20				2 1	50, 64, 56 52	
A 576A	2		SHLD A576 E61-B	 271				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 121 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 576L			J37-C* TB7-4D	295 33				.22 .19	NO NO		42	
A 576R			J37-B* TB7-3D	295 33				.22 .19	NO NO		42	
A 577	10				2.80 2.50	2.50 2.20				2 1	50, 64, 56 52	
A 577A	2		SHLD A577 E59-B	 296				.25 .38	NO NO			
A 577L			J37-E* TB13-5C	295 266				.22 .19	NO NO		42	
A 577R			J37-D* TB13-4C	295 266				.22 .19	NO NO		42	
A 578	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 578A	2		SHLD A578 E59-B	 296				.25 .38	NO NO			
A 578L			J37-J* J41-E*	295 280				.22 .22	NO NO			
A 578R			J37-I* J41-F*	295 280				.22 .22	NO NO			
A 579	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 579A	2		SHLD A579 E59-B	 296				.25 .38	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 122 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 579L			J37-K*	295				.22	NO			
			J41-H*	280				.22	NO			
A 579R			J37-M*	295				.22	NO			
			J41-G*	280				.22	NO			
A 580	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 580A	2		SHLD A580					.25	NO			
			E59-B	296				.38	NO			
A 580L			J37-Z*	295				.22	NO			
			T817-16D	261				.19	NO		42	
A 580R			J37-Y*	295				.22	NO			
			T817-15D.	261				.19	NO		42	
A 581	7				2.80	2.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 581A	2		SHLD A581					.25	NO			
			E59-B	296				.38	NO			
A 581W			J37-BB	295				.22	NO			
			T813-13A	266				.19	NO		42	
A 583	11				1.80	1.50				2	50, 87, 86	
					2.50	2.20				1	50	
A 583A	2		SHLD A583					.25	NO			
			E59-B	296				.38	NO			
A 583L			J37-LL	295				.22	NO			
			T86-4E	38				.19	NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 583R			J37-KK	295				.22	NO			
			T86-1E	38				.19	NO		42	
A 584	14				2.30	2.00				2	50, 65, 57	
					2.50	2.20				1	52	
A 584A	2		SHLD A584					.25	NO			
			E59-B	296				.38	NO			
A 584L			J37-MM	295				.22	NO			
			T813-20D	266				.19	NO		42	
A 584R			J37-PP	295				.22	NO			
			T813-19D	266				.19	NO		42	
A 584Y			J37-NN	295				.22	NO			
			T813-20E	266				.19	NO		42	
A 586	3		J38-B	293				.22	NO			
			E60-B	294				.38	NO			
A 588	1		J38-B*	293				.22	NO			
			T813-10A	266				.19	NO		42	
A 589	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 589A	2		SHLD A589					.25	NO			
			E60-B	294				.38	NO			
A 589L			J38-D*	293				.22	NO			
			T811-5C	37				.19	NO		42	
A 589R			J38-C*	293				.22	NO			
			T811-4C	37				.19	NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 590	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 590A	2		SHLD A590					.25	NO			
			E60-B	294				.38	NO			
A 590L			J38-F*	293				.22	NO			
			K42-14	221				.31	YES			
A 590R			J38-E*	293				.22	NO			
			K42-17	221				.31	YES			
A 591	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 591A	2		SHLD A591					.25	NO			
			E60-B	294				.38	NO			
A 591L			J38-H*	293				.22	NO			
			T817-2A	261				.19	NO		42	
A 591R			J38-G*	293				.22	NO			
			T817-1A	261				.19	NO		42	
A 592	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 592A	2		SHLD A592					.25	NO			
			E60-B	294				.38	NO			
A 592L			J38-K*	293				.22	NO			
			K58-10	248				.31	YES		49	
A 592R			J38-J*	293				.22	NO			
			K58-13	248				.31	YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 593	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 593A	2		SHLD A593					.25	NO			
			E60-B	294				.38	NO			
A 593L			J38-N*	293				.22	NO			
			K58-4	248				.31	YES		49	
A 593R			J38-M*	293				.22	NO			
			K58-7	248				.31	YES		49	
A 594	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 594A	2		SHLD A594					.25	NO			
			E60-B	294				.38	NO			
A 594L			J38-Q*	293				.22	NO			
			K60-5	250				.31	YES		49	
A 594R			J38-P*	293				.22	NO			
			K60-8	250				.31	YES		49	
A 595	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 595A	2		SHLD A595					.25	NO			
			E60-B	294				.38	NO			
A 595L			J38-S*	293				.22	NO			
			K57-10	247				.31	YES		49	
A 595R			J38-R*	293				.22	NO			
			K57-13	247				.31	YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 596	10				3.30 2.50	3.00 2.20				2 1	50, 64, 56 52	
A 596A	2		SHLD A596 E61-B	 271				.25 .38	NO NO			
A 596L			J38-U* K57-4	293 247				.22 .31	NO YES		49	
A 596R			J38-T* K57-7	293 247				.22 .31	NO YES		49	
A 597	10				1.80 2.50	1.50 2.20				2 1	50, 64, 56 52	
A 597A	2		SHLD A597 E61-B	 271				.25 .38	NO NO			
A 597L			J38-7* TB17-20A	293 261				.22 .19	NO NO		42	
A 597R			J38-Y* TB17-19A	293 261				.22 .19	NO NO		42	
A 598	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 598A	2		SHLD A598 E61-B	 271				.25 .38	NO NO			
A 598L			J38-CC TB13-2D	293 266				.22 .19	NO NO		42	
A 598R			J38-BB TB13-1D	293 266				.22 .19	NO NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 600	1		J38-DD TB13-11A	293 266				.22 .19	NO NO		42	
A 601	14				2.30 2.50	2.00 2.20				2 1	50, 65, 57 52	
A 601A	2		SHLD A601 E61-B	 271				.25 .38	NO NO			
A 601L			J38-EE K42-8	293 221				.22 .31	NO YES			
A 601R			J38-GG K42-11	293 221				.22 .31	NO YES			
A 601Y			J38-FF K42-5	293 221				.22 .31	NO YES		49	
A 602	14				2.80 2.50	2.50 2.20				2 1	50, 65, 57 52	
A 602A	2		SHLD A602 E61-B	 271				.25 .38	NO NO			
A 602L			J38-HH K43-5	293 222				.22 .31	NO YES		49	
A 602R			J38-JJ K43-11	293 222				.22 .31	NO YES		49	
A 602Y			J38-KK K43-7	293 222				.22 .31	NO YES			
A 603	11				3.30 2.50	3.00 2.20				2 1	50, 87, 86 50	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 603A	2		SHLD A603 E61-B	 271				.25 .38	NO NO			
A 603L			J38-MM TB6-4B	293 38				.22 .19	NO NO		42	
A 603R			J38-LL TB6-1B	293 38				.22 .19	NO NO		42	
A 604	7				1.80 2.00	1.50 1.70				2 1	52, 63, 54 53	
A 604A	2		SHLD A604 E61-B	 271				.25 .38	NO NO			
A 604W			J38-NN TB11-3B	293 37				.22 .19	NO NO		42	
A 605	7				2.30 2.00	2.00 1.70				2 1	52, 63, 54 53	
A 605A	2		SHLD A605 E61-B	 271				.25 .38	NO NO			
A 605W			J38-PP TB11-2F	293 37				.22 .19	NO NO		42	
A 607	3		J39-B E62-B	291 292				.22 .38	NO NO			
A 608	1		J39-X TB17-8B	291 261				.22 .19	NO NO		42	
A 611	9				2.30 2.00	2.00 1.70				2 1	52, 63, 55 53	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 611A	2		SHLD A611 E62-B	 292				.25 .38	NO NO			
A 611W			J39-V* TB6-3B	291 38				.22 .19	NO NO		43	
A 612	9				2.80 2.00	2.50 1.70				2 1	52, 63, 55 53	
A 612A	2		SHLD A612 E62-B	 292				.25 .38	NO NO			
A 612W			J39-W* TB6-3C	291 38				.22 .19	NO NO		43	
A 614	1		J39-EE TB11-1C	291 37				.22 .19	NO NO		42	
A 615	1		J39-DD TB13-6C	291 266				.22 .19	NO NO		42	
A 616	3		J40-C* E62-B	290 292				.28 .38	YES NO		47	
A 617	4		J40-D TB5-4	290 63				.28 .19	YES NO		47 40	
A 618	4		J40-E TB16-7	290 262				.28 .19	YES NO		47 40	
A 619	6		J40-I TB2-8	290 92				.41 .31	YES NO		46 41	
A 620	6		J40-J TB2-7	290 93				.41 .31	YES NO		46 41	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 621	5		J40-K	290				.41	YES		46	
			TB3-8	70				.19	NO		40	
A 622	5		J40-L	290				.41	YES		46	
			TB3-7	71				.19	NO		40	
A 623	5		J40-M	290				.41	YES		46	
			TB4-8	82				.19	NO		40	
A 624	5		J40-N	290				.41	YES		46	
			TB4-7	83				.19	NO		40	
A 625	6		J40-S	290				.41	YES		46	
			TB16-8	262				.31	NO		41	
A 626	6		J40-T	290				.41	YES		46	
			TB16-10	262				.31	NO		41	
A 627	6		J40-U	290				.41	YES		46	
			TB14-10	265				.31	NO		41	
A 628	6		J40-V	290				.41	YES		46	
			TB10-4	36				.31	NO		41	
A 630	12				1.80	1.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 630A	2		SHLD A630					.25	NO			
			E62-B	292				.38	NO			
A 630L			J40-E*	290				.28	YES		47	
			TB17-10C	261				.19	NO		43	
A 630R			J40-D*	290				.28	YES		47	
			TB17-9C	261				.19	NO		43	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 644	3		J41-H	280				.22	NO			
			E63-B	278				.38	NO			
A 645	1		J41-N	280				.22	NO			
			TB7-13F	33				.19	NO		42	
A 646	1		J41-P	280				.22	NO			
			K20-5	178				.31	YES		46	
A 647	1		J41-R	280				.22	NO			
			K20-3	178				.31	YES		47	
A 648	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 648A	2		SHLD A648					.25	NO			
			E63-B	278				.38	NO			
A 648L			J41-D*	280				.22	NO			
			TB7-4C	33				.19	NO		42	
A 648R			J41-C*	280				.22	NO			
			TB7-3C	33				.19	NO		42	
A 649	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 649A	2		SHLD A649					.25	NO			
			E63-B	278				.38	NO			
A 649L			J41-I*	280				.22	NO			
			TB13-5D	266				.19	NO		42	
A 649R			J41-J*	280				.22	NO			
			TB13-4D	266				.19	NO		42	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 650	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 650A	2		SHLD A650					.25	NO			
			E63-B	278				.38	NO			
A 650L			J41-P*	280				.22	NO			
			TB7-6C	33				.19	NO		42	
A 650R			J41-N*	280				.22	NO			
			TB7-5C	33				.19	NO		42	
A 651	1		J41-U*	280				.22	NO			
			J44-T	274				.22	NO			
A 652	1		J41-V*	280				.22	NO			
			J44-W	274				.22	NO			
A 653	1		J41-W*	280				.22	NO			
			J44-X	274				.22	NO			
A 654	3		J42-B	279				.22	NO			
			E63-B	278				.38	NO			
A 655	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 655A	2		SHLD A655					.25	NO			
			E63-B	278				.38	NO			
A 655L			J42-B*	279				.22	NO			
			J43-S*	275				.22	NO			
A 655R			J42-A*	279				.22	NO			
			J43-R*	275				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 656	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 656A	2		SHLD A656					.25	NO			
			E63-B	278				.38	NO			
A 656L			J42-D*	279				.22	NO			
			J43-U*	275				.22	NO			
A 656R			J42-C*	279				.22	NO			
			J43-T*	275				.22	NO			
A 658	3		K3-9	50				.31	YES		47	
			E87-B	263				.38	NO			
A 659	3		J43-G	275				.22	NO			
			E65-B	276				.38	NO			
A 661	3		J43-P	275				.22	NO			
			TB12-40	200				.25	YES			
A 662	8				1.80	1.50				2	52, 63, 55	
					2.50	2.20				1	53	
A 662A	2		SHLD A662					.25	NO			
			E65-B	276				.38	NO			
A 662W			J43-S	275				.22	NO			
			K8-12	39				.31	YES		47	
A 664	3		J43-V	275				.22	NO			
			TB14-8	265				.19	NO		39	
A 665	1		J43-W	275				.22	NO			
			P6-B	114				.31	YES		93	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 666	8				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 666A	2		SHLD A666									
			E65-B	276				.25	NO			
								.38	NO			
A 666W			J43-Y	275				.22	NO			
			TB13-13F	266				.19	NO		42	
A 667	3		J43-Z	275				.22	NO			
			P6-D	114				.31	YES			
A 668	3		J43-A*	275				.22	NO			
			E65-B	276				.38	NO			
A 669	1		J43-B*	275				.22	NO			
			P6-W	114				.31	YES		93	
A 670	3		J43-C*	275				.22	NO			
			K8-3	39				.31	YES		47	
A 671	1		J43-D*	275				.22	NO			
			P6-P	114				.31	YES		93	
A 672	1		J43-E*	275				.22	NO			
			P2-E	119				.31	YES		93	
A 673	1		J43-F*	275				.22	NO			
			P2-H	119				.31	YES		93	
A 674	3		J43-I*	275				.22	NO			
			P6-Z	114				.31	YES			
A 675	11				3.30	3.00				2	50, 87, 86	
					2.50	2.20				1	50	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 675A	2		SHLD A675									
			E65-B	276				.25	NO			
								.38	NO			
A 675L			J43-K*	275				.22	NO			
			K20-8	178				.31	YES		47	
A 675R			J43-J*	275				.22	NO			
			K20-14	178				.31	YES		47	
A 676	3		J43-V*	275				.22	NO			
			P6-A	114				.31	YES			
A 677	1		J44-B	274				.22	NO			
			TB17-8C	261				.19	NO		42	
A 678	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 678A	2		SHLD A678									
			E66-B	273				.25	NO			
								.38	NO			
A 678W			J44-C	274				.22	NO			
			K30-14	209				.31	YES		49	
A 679	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 679A	2		SHLD A679									
			E66-B	273				.25	NO			
								.38	NO			
A 679L			J44-E	274				.22	NO			
			K19-11	177				.31	YES		48	
A 679R			J44-D	274				.22	NO			
			K19-14	177				.31	YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 680	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 680A	2		SHLD A680									
			E66-B	273				.25	NO			
								.38	NO			
A 680L			J44-G	274				.22	NO			
			K19-5	177				.31	YES		49	
A 680R			J44-F	274				.22	NO			
			K19-8	177				.31	YES		49	
A 681	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 681A	2		SHLD A681									
			E66-B	273				.25	NO			
								.38	NO			
A 681L			J44-J	274				.22	NO			
			K30-5	209				.31	YES		49	
A 681R			J44-H	274				.22	NO			
			K30-8	209				.31	YES		49	
A 682	1		J44-K	274				.22	NO			
			K20-7	178				.31	YES		47	
A 686	1		J44-S	274				.22	NO			
			P2-C	119				.31	YES		93	
A 687	1		J44-U	274				.22	NO			
			P2-B	119				.31	YES		93	
A 688	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 688A	2		SHLD A688									
			E63-B	278				.25	NO			
								.38	NO			
A 688L			J42-U*	279				.22	NO			
			TB17-17C	261				.19	NO		42	
A 688R			J42-T*	279				.22	NO			
			TB17-18C	261				.19	NO		42	
A 689	1		J44-Y	274				.22	NO			
			P6-E	114				.31	YES			
A 690	1		J44-Z	274				.22	NO			
			P2-P	119				.31	YES			
A 691	3		J44-A*	274				.22	NO			
			E66-B	273				.38	NO			
A 692	1		J44-B*	274				.22	NO			
			P2-D	119				.31	YES			
A 693	1		J44-C*	274				.22	NO			
			P2-X	119				.31	YES			
A 694	3		J44-D*	274				.22	NO			
			P2-S	119				.31	YES			
A 695	3		J44-E*	274				.22	NO			
			P2-F	119				.31	YES			
A 696	3		J44-M*	274				.22	NO			
			P2-L	119				.31	YES		93	
A 697	1		J44-N*	274				.22	NO			
			P2-A*	119				.31	YES		93	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 698	1		J44-P*	274				.22	NO			
			P2-Z	119				.31	YES		93	
A 699	1		J44-R*	274				.22	NO			
			P2-N	119				.31	YES		93	
A 700	1		J44-S*	274				.22	NO			
			P2-M	119				.31	YES		93	
A 701	7				3.30	3.00				2	52, 63, 54	
					2.00	1.70				1	53	
A 701A	2		SHLD A701					.25	NO			
			E66-B	273				.38	NO			
A 701W			J44-AA	274				.22	NO			
			K27-1	206				.31	YES		47	
A 702	7				1.80	1.50				2	52, 63, 54	
					2.00	1.70				1	53	
A 702A	2		SHLD A702					.25	NO			
			E66-B	273				.38	NO			
A 702W			J44-BB	274				.22	NO			
			K28-1	207				.31	YES		47	
A 703	3		J44-CC	274				.22	NO			
			K20-1	178				.31	YES		47	
A 704	3		J44-DD	274				.22	NO			
			P2-A	119				.31	YES		93	
A 705	3		J45-B	268				.22	NO			
			E67-B	269				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 706	3		J45-H*	268				.22	NO			
			E87-B	263				.38	NO			
A 707	3		J45-N*	268				.22	NO			
			E87-B	263				.38	NO			
A 708	3		J45-S*	268				.22	NO			
			TB13-12A	266				.19	NO		43	
A 709	10				1.80	1.50				2	50, 64, 56	
					2.50	2.20				1	52	
A 709A	2		SHLD A709					.25	NO			
			E67-B	269				.38	NO			
A 709L			J45-X*	268				.22	NO			
			TB17-6B	261				.19	NO		42	
A 709R			J45-W*	268				.22	NO			
			TB17-5B	261				.19	NO		42	
A 710	10				2.30	2.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 710A	2		SHLD A710					.25	NO			
			E67-B	269				.38	NO			
A 710L			J45-Y*	268				.22	NO			
			TB11-5E	37				.19	NO		42	
A 710R			J45-Z*	268				.22	NO			
			TB11-3E	37				.19	NO		42	
A 711	10				2.80	2.50				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 711A	2		SHLD A711					.25	NO			
			E67-B	269				.38	NO			
A 711L			J45-CC	268				.22	NO			
			TB17-2B	261				.19	NO		42	
A 711R			J45-BB	268				.22	NO			
			TB17-1B	261				.19	NO		42	
A 712	10				3.30	3.00				2	50, 64, 56	
					2.50	2.20				1	52	
A 712A	2		SHLD A712					.25	NO			
			E67-B	269				.38	NO			
A 712L			J45-EE	268				.22	NO			
			TB17-4B	261				.19	NO		42	
A 712R			J45-DD	268				.22	NO			
			TB17-3B	261				.19	NO		42	
A 713	3		J45-GG	268				.22	NO			
			TB12-2D	192				.25	YES			
A 714	4		J46-D	267				.28	YES		47	
			TB5-3	64				.19	NO		40	
A 715	4		J46-E	267				.28	YES		47	
			TB16-9	262				.19	NO		40	
A 716	6		J46-I	267				.28	YES		46	
			TB2-5	96				.31	NO		41	
A 717	6		J46-J	267				.28	YES		46	
			TB2-4	97				.31	NO		41	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 141 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 718	5		J46-K	267				.41	YES		46	
			TB3-5	74				.19	NO		40	
A 719	5		J46-L	267				.41	YES		46	
			TB3-4	75				.19	NO		40	
A 720	5		J46-M	267				.41	YES		46	
			TB4-5	85				.19	NO		40	
A 721	5		J46-N	267				.41	YES		46	
			TB4-4	86				.19	NO		40	
A 722	6		J46-S	267				.41	YES		46	
			TB16-12	262				.31	NO		41	
A 723	6		J46-T	267				.41	YES		46	
			TB16-14	262				.31	NO		41	
A 724	6		J46-U	267				.41	YES		46	
			TB14-12	265				.31	NO		41	
A 725	6		J46-V	267				.41	YES		46	
			TB10-6	36				.31	NO		41	
A 726	6		K1-A1	43				.31	NO		41	
			TB2-1	100				.31	NO		41	
A 727	6		K1-A2	40				.31	NO		41	
			K2-A1	45				.31	NO		41	
A 728	6		K1-B1	43				.31	NO		41	
			TB2-6	94				.31	NO		41	
A 729	3		K1-X1	41				.19	NO		45	
			K6-4	47				.31	YES		46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 142 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 730	3		K1-X2	41				.19	NO		45	
			K6-11	47				.31	YES		46	
A 731	6		K2-A2	45				.31	NO		41	
			XF2-1	146				.31	YES			
A 732	3		K2-X1	51				.19	NO		45	
			TB1-4	109				.25	YES			
A 733	3		K2-X2	44				.19	NO		45	
			TB6-7D	38				.19	NO		43	
A 734	4		K3-2	50				.31	YES		47	
			K6-5	47				.31	YES		47	
A 735	4		K3-3	50				.31	YES		47	
			XF1-1	147				.31	YES			
A 736	3		K3-5	50				.31	YES		47	
			TB1-6	108				.25	YES			
A 737	3		K3-11	50				.31	YES		47	
			TB6-7E	38				.19	NO		43	
A 738	4		K4-2	49				.31	YES		47	
			E15	42				.25	YES			
A 739	3		K17-4	175				.31	YES		47	
			TB11-20B	37				.19	NO		43	
A 740	4		K4-3	49				.31	YES		47	
			XF3-1	138				.31	YES			
A 741	1		K4-5	49				.31	YES		46	
			TB1-8	107				.25	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 143 OF 199

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 742	3		K4-11	49				.31	YES		47	
			TB6-8A	38				.19	NO		43	
A 743	4		K5-2	48				.31	YES		47	
			K6-12	47				.31	YES		47	
A 744	4		K5-3	48				.31	YES		47	
			XF4-1	137				.31	YES			
A 745	1		K5-5	48				.31	YES		46	
			TB1-10	106				.25	YES			
A 746	3		K5-11	48				.31	YES		47	
			TB6-8B	38				.19	NO		43	
A 747	3		K6-3	47				.31	YES		47	
			TB7-12E	33				.19	NO		43	
A 748	3		K6-4	47				.31	YES			
			TB1-2C	104				.25	YES			
A 749	4		K6-6	47				.31	YES		47	
			TB5-1	66				.19	NO		40	
A 750	4		K6-7	47				.31	YES		47	
			TB5-6	61				.19	NO		40	
A 751	4		K6-8	47				.31	YES		47	
			TB3-6	73				.19	NO		40	
A 752	4		K6-9	47				.31	YES		47	
			TB3-1	78				.19	NO		40	
A 753	3		K6-11	47				.31	YES			
			TB1-19	105				.19	NO		43	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 144 OF 199

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 754	4		K6-13	47				.31	YES		47	
			TB4-1	88				.19	NO		40	
A 755	4		K6-14	47				.31	YES		47	
			TB4-6	84				.19	NO		40	
A 756	3		K7-2	46				.31	YES		49	
			TB7-20F	33				.19	NO		43	
A 757	3		K7-4	46				.31	YES		49	
			K25-4	204				.31	YES		48	
A 758	3		K8-4	39				.31	YES		46	
			TB1-2	110				.25	YES			
A 760	1		K8-8	39				.31	YES		46	
			TB6-6B	38				.19	NO		42	
A 762	3		K8-11	39				.31	YES		47	
			TB6-7C	38				.19	NO		43	
A 763	3		K17-2	175				.31	YES		47	
			TB7-12D	33				.19	NO		43	
A 764	3		K17-3	175				.31	YES		46	
			K18-4	176				.31	YES		46	
A 765	3		K17-4	175				.31	YES			
			TB12-40	200				.25	YES			
A 766	3		K17-11	175				.31	YES		47	
			TB12-39	201				.25	YES			
A 767	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 145 OF 199

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 767A	2		SHLD A767					.25	NO			
			E68-8	179				.38	NO			
A 767L			K18-8	176				.31	YES			
			K19-12	177				.31	YES		48	
A 767R			K18-10	176				.31	YES		47	
			K19-9	177				.31	YES		49	
A 768	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 768A	2		SHLD A768					.25	NO			
			E68-8	179				.38	NO			
A 768L			K18-9	176				.31	YES			
			K29-9	208				.31	YES			
A 768R			K18-13	176				.31	YES			
			K29-13	208				.31	YES			
A 769	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 769A	2		SHLD A769					.25	NO			
			E68-8	179				.38	NO			
A 769L			K18-3	176				.31	YES			
			K19-3	177				.31	YES		49	
A 769R			K18-5	176				.31	YES		47	
			K19-6	177				.31	YES		49	
A 770	3		K18-4	176				.31	YES		47	
			TB12-4	184				.25	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 146 OF 199

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 771	3		K18-11	176				.31	YES		47	
			T87-13C	33				.19	NO		43	
A 772	3		K17-3	175				.31	YES			
			K29-4	208				.31	YES		46	
A 773	3		K19-11	177				.31	YES			
			K30-11	209				.31	YES		49	
A 774	3		K19-2	177				.31	YES		48	
			K30-2	209				.31	YES		49	
A 775	3		K19-2	177				.31	YES			
			T87-13D	33				.19	NO		43	
A 776	3		K20-4	178				.31	YES		47	
			T812-8	186				.25	YES			
A 777	3		TR12-22	193				.25	YES			
			K17-11	175				.31	YES			
A 779	3		K20-11	178				.31	YES		47	
			T87-13E	33				.19	NO		43	
A 784	3		K22-2	202				.31	YES		49	
			T87-20D	33				.19	NO		43	
A 785	3		J25-K	154				.22	NO			
			T813-12F	266				.19	NO		43	
A 789	3		K25-2	204				.31	YES		49	
			T87-15D	33				.19	NO		43	
A 790	3		K27-2	206				.31	YES		47	
			K28-2	207				.31	YES		46	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 147 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 791	3		K27-4	206				.31	YES			
			T812-12	188				.25	YES			
A 792	3		K27-11	206				.31	YES		47	
			T87-14B	33				.19	NO		43	
A 793	3		K28-2	207				.31	YES			
			T811-20A	37				.19	NO		43	
A 795	3		K28-4	207				.31	YES			
			T812-14	189				.25	YES			
A 796	3		K28-11	207				.31	YES		47	
			T87-14C	33				.19	NO		43	
A 798	11				2.50	2.20				2	50, 87, 86	
					2.50	2.20				1	50	
A 798A	2		SHLD A798					.25	NO			
			E66-8	179				.38	NO			
A 798L			K29-3	208				.31	YES		47	
			K30-3	209				.31	YES		49	
A 798R			K29-5	208				.31	YES		47	
			K30-6	209				.31	YES		49	
A 799	3		K29-4	208				.31	YES			
			T812-2	183				.25	YES			
A 800	3		K29-11	208				.31	YES		47	
			T87-13B	33				.19	NO		43	
A 810	11				2.50	2.20				2	50, 87, 86	
					2.50	2.20				1	50	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 148 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 810A	2		SHLD A810					.25	NO			
			E69-8	181				.38	NO			
A 810L			K20-10	178				.31	YES		47	
			T813-18E	266				.19	NO		42	
A 810R			K20-12	178				.31	YES		47	
			T813-17E	266				.19	NO		42	
A 834	3		K38-1	217				.31	YES		49	
			K54-15	241				.31	YES		49	
A 835	3		K38-2	217				.31	YES		49	
			K54-2	241				.31	YES		48	
A 836	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 836A	2		SHLD A836					.25	NO			
			E71-8	234				.38	NO			
A 836L			K38-6	217				.31	YES		48	
			K41-6	220				.31	YES		49	
A 836R			K38-3	217				.31	YES		49	
			K41-3	220				.31	YES		49	
A 838	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 838A	2		SHLD A838					.25	NO			
			E71-8	234				.38	NO			
A 838L			K38-12	217				.31	YES			
			K55-6	242				.31	YES		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 149 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 838R			K38-9	217				.31	YES		49	
			K55-3	242				.31	YES		48	
A 840	3		K40-2	219				.31	YES		49	
			T87-19C	33				.19	NO		43	
A 841	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 841A	2		SHLD A841					.25	NO			
			E71-8	234				.38	NO			
A 841L			K40-6	219				.31	YES		49	
			K55-6	242				.31	YES			
A 841R			K40-3	219				.31	YES		49	
			K55-3	242				.31	YES			
A 842	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 842A	2		SHLD A842					.25	NO			
			E71-8	234				.38	NO			
A 842L			K40-7	219				.31	YES		49	
			K41-8	220				.31	YES		49	
A 842R			K40-4	219				.31	YES		49	
			K41-5	220				.31	YES		49	
A 843	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 843A	2		SHLD A843					.25	NO			
			E71-8	234				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B #	SHEET 150 OF 199

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 843L			K40-8	219				.31	YES		49	
			K54-12	241				.31	YES		49	
A 843R			K40-5	219				.31	YES		49	
			K54-9	241				.31	YES		49	
A 844	3		K41-2	220				.31	YES		49	
			T87-19B	33				.19	NO		43	
A 845	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 845A	2		SHLD A845					.25	NO			
			E73-8	236				.38	NO			
A 845L			K41-7	220				.31	YES		49	
			K56-7	243				.31	YES		48	
A 845R			K41-4	220				.31	YES		49	
			K56-10	243				.31	YES		49	
A 846	3		K42-18	221				.31	YES		49	
			K43-1	222				.31	YES		48	
A 847	3		K42-2	221				.31	YES		49	
			K43-2	222				.31	YES		48	
A 848	3		K43-1	222				.31	YES			
			K59-1	249				.31	YES		48	
A 849	3		K43-2	222				.31	YES			
			K59-2	249				.31	YES		48	
A 850	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 151 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 850A	2		SHLD A850					.25	NO			
			E73-8	236				.38	NO			
A 850L			K43-14	222				.31	YES		49	
			T817-2D	261				.19	NO		42	
A 850R			K43-17	222				.31	YES		49	
			T817-1D	261				.19	NO		42	
A 851	3		K44-18	223				.31	YES		49	
			K45-1	224				.31	YES		49	
A 852	3		K44-2	223				.31	YES		48	
			K45-2	224				.31	YES		48	
A 853	3		K44-2	223				.31	YES			
			T87-18E	33				.19	NO		43	
A 854	3		K44-4	223				.31	YES		49	
			K45-15	224				.31	YES		49	
A 855	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 855A	2		SHLD A855					.25	NO			
			E73-8	236				.38	NO			
A 855L			K44-10	223				.31	YES			
			K59-16	249				.31	YES			
A 855R			K44-7	223				.31	YES			
			K59-19	249				.31	YES			
A 856	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B # | SHEET 152 OF 199

MIL 2004 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 856A	2		SHLD A856					.25	NO			
			E73-8	236				.38	NO			
A 856L			K44-11	223				.31	YES		49	
			T811-16D	37				.19	NO		42	
A 856R			K44-8	223				.31	YES		49	
			T811-15D	37				.19	NO		42	
A 857	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 857A	2		SHLD A857					.25	NO			
			E73-8	236				.38	NO			
A 857L			K44-16	223				.31	YES			
			K59-10	249				.31	YES			
A 857R			K44-13	223				.31	YES			
			K59-13	249				.31	YES			
A 858	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 858A	2		SHLD A858					.25	NO			
			E73-8	236				.38	NO			
A 858L			K44-17	223				.31	YES		49	
			T811-18D	37				.19	NO		42	
A 858R			K44-14	223				.31	YES		49	
			T811-17D	37				.19	NO		42	
A 859	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 859A	2		SHLD A859					.25	NO			
			E73-8	236				.38	NO			
A 859L			K45-7	226				.31	YES			
			K59-4	249				.31	YES			
A 859R			K45-4	224				.31	YES			
			K59-7	249				.31	YES			
A 860	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 860A	2		SHLD A860					.25	NO			
			E73-8	236				.38	NO			
A 860L			K45-8	224				.31	YES		49	
			K59-5	249				.31	YES		48	
A 860R			K45-5	224				.31	YES		49	
			K59-8	249				.31	YES		48	
A 861	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 861A	2		SHLD A861					.25	NO			
			E73-8	236				.38	NO			
A 861L			K45-13	224				.31	YES			
			K60-10	250				.31	YES			
A 861R			K45-10	224				.31	YES			
			K60-13	250				.31	YES			
A 862	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 862A	2		SHLD A862 E73-8	 236				.25 .38	NO NO			
A 862L			K45-14 K60-11	224 250				.31 .31	YES YES		49 48	
A 862R			K45-11 K60-14	224 250				.31 .31	YES YES		49 48	
A 863	3		K46-18 K47-1	225 226				.31 .31	YES YES		49 48	
A 864	3		K46-2 K47-2	225 226				.31 .31	YES YES		49 48	
A 865	3		K47-2 K64-2	226 254				.31 .31	YES YES		48	
A 866	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 866A	2		SHLD A866 E75-8	 238				.25 .38	NO NO			
A 866L			K47-14 TB17-4D	226 261				.31 .19	YES NO		49 42	
A 866R			K47-17 TB17-3D	226 261				.31 .19	YES NO		49 42	
A 867	3		K48-18 K49-1	227 228				.31 .31	YES YES		49 49	
A 868	3		K48-2 K49-2	227 228				.31 .31	YES YES		48 48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 869	3		K48-2 TB7-17D	227 33				.31 .19	YES NO		 43	
A 870	3		K48-4 K49-15	227 228				.31 .31	YES YES		49 49	
A 871	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 871A	2		SHLD A871 E75-8	 238				.25 .38	NO NO			
A 871L			K48-10 K63-16	227 253				.31 .31	YES YES			
A 871R			K48-7 K63-19	227 253				.31 .31	YES YES			
A 872	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 872A	2		SHLD A872 E75-8	 238				.25 .38	NO NO			
A 872L			K48-11 TB11-12E	227 37				.31 .19	YES NO		49 42	
A 872R			K48-8 TB11-11E	227 37				.31 .19	YES NO		49 42	
A 873	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 873A	2		SHLD A873 E75-8	 238				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 873L			K48-16 K63-10	227 253				.31 .31	YES YES			
A 873R			K48-13 K63-13	227 253				.31 .31	YES YES			
A 874	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 874A	2		SHLD A874 E75-8	 238				.25 .38	NO NO			
A 874L			K48-17 TB11-10E	227 37				.31 .19	YES NO		49 42	
A 874R			K48-14 TB11-9E	227 37				.31 .19	YES NO		49 42	
A 875	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 875A	2		SHLD A875 E75-8	 238				.25 .38	NO NO			
A 875L			K49-7 K63-4	228 253				.31 .31	YES YES			
A 875R			K49-4 K63-7	228 253				.31 .31	YES YES			
A 876	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 876A	2		SHLD A876 E75-8	 238				.25 .38	NO NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 876L			K49-8 K63-5	228 253				.31 .31	YES YES		49 48	
A 876R			K49-5 K63-8	228 253				.31 .31	YES YES		49 48	
A 877	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 877A	2		SHLD A877 E75-8	 238				.25 .38	NO NO			
A 877L			K49-13 K64-10	228 254				.31 .31	YES YES			
A 877R			K49-10 K64-13	228 254				.31 .31	YES YES			
A 878	10				2.50 2.50	2.20 2.20				2 1	50, 64, 56 52	
A 878A	2		SHLD A878 E75-8	 238				.25 .38	NO NO			
A 878L			K49-14 K64-11	228 254				.31 .31	YES YES		49 48	
A 878R			K49-11 K64-14	228 254				.31 .31	YES YES		49 48	
A 879	3		K50-18 K51-1	229 230				.31 .31	YES YES		49 48	
A 880	3		K50-2 K51-2	229 230				.31 .31	YES YES		49 48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 881	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 881A	2		SHLD A881 E75-B	238				.25	NO			
								.38	NO			
A 881L			K50-14	229				.31	YES		49	
			TB17-6D	261				.19	NO		42	
A 881R			K50-17	229				.31	YES		49	
			TB17-5D	261				.19	NO		42	
A 882	3		K51-1	230				.31	YES			
			K67-1	257				.31	YES		48	
A 883	3		K51-2	230				.31	YES			
			K68-2	258				.31	YES		48	
A 884	3		K52-18	231				.31	YES		49	
			K53-1	232				.31	YES		49	
A 885	3		K52-2	231				.31	YES		48	
			K53-2	232				.31	YES		48	
A 886	3		K52-2	231				.31	YES			
			TB7-16D	33				.19	NO		43	
A 887	3		K52-4	231				.31	YES		49	
			K53-15	232				.31	YES		49	
A 888	1		K52-10	231				.31	YES		49	
			TB11-14E	37				.19	NO		42	
A 889	1		K52-7	231				.31	YES		49	
			K67-19	257				.31	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 890	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 890A	2		SHLD A890 E76-B	240				.25	NO			
								.38	NO			
A 890L			K52-11	231				.31	YES		49	
			K67-17	257				.31	YES		48	
A 890R			K52-8	231				.31	YES		49	
			K67-20	257				.31	YES		48	
A 891	1		K52-13	231				.31	YES		49	
			K67-13	257				.31	YES			
A 892	1		K52-16	231				.31	YES		49	
			TB11-8E	37				.19	NO		42	
A 893	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 893A	2		SHLD A893 E76-B	240				.25	NO			
								.38	NO			
A 893L			K52-17	231				.31	YES		49	
			K67-11	257				.31	YES		48	
A 893R			K52-14	231				.31	YES		49	
			K67-14	257				.31	YES		48	
A 894	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 894A	2		SHLD A894 E76-B	240				.25	NO			
								.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902282 | SCALE-NONE | REV LTR B | SHEET 160 OF 199

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 894L			K53-7	232				.31	YES			
			K67-4	257				.31	YES			
A 894R			K53-4	232				.31	YES			
			K67-7	257				.31	YES			
A 895	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 895A	2		SHLD A895 E76-B	240				.25	NO			
								.38	NO			
A 895L			K53-8	232				.31	YES		49	
			K67-5	257				.31	YES		48	
A 895R			K53-5	232				.31	YES		49	
			K67-8	257				.31	YES		48	
A 896	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 896A	2		SHLD A896 E76-B	240				.25	NO			
								.38	NO			
A 896L			K53-13	232				.31	YES			
			K68-10	258				.31	YES			
A 896R			K53-10	232				.31	YES			
			K68-13	258				.31	YES			
A 897	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 897A	2		SHLD A897 E76-B	240				.25	NO			
								.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 897L			K53-14	232				.31	YES		49	
			K68-11	258				.31	YES		48	
A 897R			K53-11	232				.31	YES		49	
			K68-14	258				.31	YES		48	
A 898	3		K54-2	241				.31	YES			
			TB7-19E	33				.19	NO		43	
A 899	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 899A	2		SHLD A899 E71-B	234				.25	NO			
								.38	NO			
A 899L			K54-6	241				.31	YES		49	
			K55-8	242				.31	YES		49	
A 899R			K54-3	241				.31	YES		49	
			K55-5	242				.31	YES		49	
A 900	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 900A	2		SHLD A900 E71-B	234				.25	NO			
								.38	NO			
A 900L			K54-8	241				.31	YES			
			K55-7	242				.31	YES			
A 900R			K54-5	241				.31	YES			
			K55-4	242				.31	YES			
A 901	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 901A	2		SHLD A901					.25	NO			
			E71-B	234				.38	NO			
A 901L			K54-14	241				.31	YES		49	
			K56-7	243				.31	YES			
A 901R			K54-11	241				.31	YES		49	
			K56-4	243				.31	YES		48	
A 902	3		K55-2	242				.31	YES		49	
			TB7-19D	33				.19	NO		43	
A 903	3		K56-2	243				.31	YES		49	
			TB7-18B	33				.19	NO		43	
A 904	7				2.50	2.20				2	52, 63, 54	
					2.00	1.70				1	53	
A 904A	2		SHLD A904					.25	NO			
			E71-B	234				.38	NO			
A 904W			K56-3	243				.31	YES		49	
			E4	246				.25	YES			
A 905	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 905A	2		SHLD A905					.25	NO			
			E71-B	234				.38	NO			
A 905L			K56-6	243				.31	YES		49	
			E2	244				.25	YES			
A 905R			K56-9	243				.31	YES		49	
			E3	245				.25	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 906	3		K57-15	247				.31	YES		48	
			K58-1	248				.31	YES		49	
A 907	3		K57-2	247				.31	YES		48	
			TB7-18C	33				.19	NO		43	
A 908	3		K57-2	247				.31	YES			
			K58-2	248				.31	YES		49	
A 909	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 909A	2		SHLD A909					.25	NO			
			E72-B	235				.38	NO			
A 909L			K57-3	247				.31	YES		49	
			K61-3	251				.31	YES		48	
A 909R			K57-6	247				.31	YES		49	
			K61-6	251				.31	YES		48	
A 910	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 910A	2		SHLD A910					.25	NO			
			E72-B	235				.38	NO			
A 910L			K57-5	247				.31	YES		49	
			K60-11	250				.31	YES			
A 910R			K57-8	247				.31	YES		49	
			K60-14	250				.31	YES			
A 911	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 911A	2		SHLD A911					.25	NO			
			E72-B	235				.38	NO			
A 911L			K57-9	247				.31	YES		49	
			K61-9	251				.31	YES		48	
A 911R			K57-12	247				.31	YES		49	
			K61-12	251				.31	YES		48	
A 912	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 912A	2		SHLD A912					.25	NO			
			E72-B	235				.38	NO			
A 912L			K57-11	247				.31	YES		49	
			K59-5	249				.31	YES			
A 912R			K57-14	247				.31	YES		49	
			K59-8	249				.31	YES			
A 913	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 913A	2		SHLD A913					.25	NO			
			E72-B	235				.38	NO			
A 913L			K58-3	248				.31	YES		49	
			K62-3	252				.31	YES		48	
A 913R			K58-6	248				.31	YES		49	
			K62-6	252				.31	YES		48	
A 914	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 914A	2		SHLD A914					.25	NO			
			E72-B	235				.38	NO			
A 914L			K58-8	248				.31	YES		49	
			K59-11	249				.31	YES			
A 914R			K58-5	248				.31	YES		49	
			K59-14	249				.31	YES			
A 915	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 915A	2		SHLD A915					.25	NO			
			E72-B	235				.38	NO			
A 915L			K58-9	248				.31	YES		49	
			K62-9	252				.31	YES		48	
A 915R			K58-12	248				.31	YES		49	
			K62-12	252				.31	YES		48	
A 916	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 916A	2		SHLD A916					.25	NO			
			E72-B	235				.38	NO			
A 916L			K58-11	248				.31	YES		49	
			K59-17	249				.31	YES			
A 916R			K58-14	248				.31	YES		49	
			K59-20	249				.31	YES			
A 917	3		K59-1	249				.31	YES			
			K60-1	250				.31	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 918	3		K59-2	249				.31	YES			
			K60-2	250				.31	YES		48	
A 919	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 919A	2		SHLD A919					.25	NO			
			E72-B	235				.38	NO			
A 919L			K59-11	249				.31	YES		48	
			T811-18E	37				.19	NO		42	
A 919R			K59-14	249				.31	YES		48	
			T811-17E	37				.19	NO		42	
A 920	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 920A	2		SHLD A920					.25	NO			
			E72-B	235				.38	NO			
A 920L			K59-17	249				.31	YES		48	
			T811-16E	37				.19	NO		42	
A 920R			K59-20	249				.31	YES		48	
			T811-15E	37				.19	NO		42	
A 921	3		K60-2	250				.31	YES			
			T87-18D	33				.19	NO		43	
A 922	3		K61-15	251				.31	YES		49	
			K62-1	252				.31	YES		49	
A 923	3		K61-2	251				.31	YES		48	
			K62-2	252				.31	YES		49	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 924	3		K61-2	251				.31	YES			
			TB7-17B	33				.19	NO		43	
A 925	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 925A	2		SHLD A925					.25	NO			
			E74-B	237				.38	NO			
A 925L			K61-3	251				.31	YES			
			K65-3	255				.31	YES			
A 925R			K61-6	251				.31	YES			
			K65-6	255				.31	YES			
A 926	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 926A	2		SHLD A926					.25	NO			
			E74-B	237				.38	NO			
A 926L			K61-5	251				.31	YES		49	
			K64-11	254				.31	YES			
A 926R			K61-8	251				.31	YES		49	
			K64-14	254				.31	YES			
A 927	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 927A	2		SHLD A927					.25	NO			
			E74-B	237				.38	NO			
A 927L			K61-9	251				.31	YES			
			K65-9	255				.31	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 927R			K61-12	251				.31	YES			
			K65-12	255				.31	YES			
A 928	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 928A	2		SHLD A928					.25	NO			
			E74-B	237				.38	NO			
A 928L			K61-11	251				.31	YES		49	
			K63-5	253				.31	YES			
A 928R			K61-14	251				.31	YES		49	
			K63-8	253				.31	YES			
A 929	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 929A	2		SHLD A929					.25	NO			
			E74-B	237				.38	NO			
A 929L			K62-3	252				.31	YES			
			K66-3	256				.31	YES			
A 929R			K62-6	252				.31	YES			
			K66-6	256				.31	YES			
A 930	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 930A	2		SHLD A930					.25	NO			
			E74-B	237				.38	NO			
A 930L			K62-8	252				.31	YES		49	
			K63-11	253				.31	YES		48	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 930R			K62-5	252				.31	YES		49	
			K63-14	253				.31	YES		48	
A 931	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 931A	2		SHLD A931					.25	NO			
			E74-B	237				.38	NO			
A 931L			K62-9	252				.31	YES			
			K66-9	256				.31	YES			
A 931R			K62-12	252				.31	YES			
			K66-12	256				.31	YES			
A 932	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 932A	2		SHLD A932					.25	NO			
			E74-B	237				.38	NO			
A 932L			K62-11	252				.31	YES		49	
			K63-17	253				.31	YES		48	
A 932R			K62-14	252				.31	YES		49	
			K63-20	253				.31	YES		48	
A 933	3		K63-1	253				.31	YES		48	
			K64-1	254				.31	YES			
A 934	3		K63-2	253				.31	YES		48	
			K64-2	254				.31	YES			
A 935	3		K63-2	253				.31	YES			
			T87-17C	33				.19	NO		43	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 936	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 936A	2		SHLD A936					.25	NO			
			E74-8	237				.38	NO			
A 936L			K63-11	253				.31	YES			
			TB11-10D	37				.19	NO		42	
A 936R			K63-14	253				.31	YES			
			TB11-9D	37				.19	NO		42	
A 937	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 937A	2		SHLD A937					.25	NO			
			E74-8	237				.38	NO			
A 937L			K63-17	253				.31	YES			
			TB11-12D	37				.19	NO		42	
A 937R			K63-20	253				.31	YES			
			TB11-11D	37				.19	NO		42	
A 938	3		K65-15	255				.31	YES		49	
			K66-1	256				.31	YES		49	
A 939	3		K65-2	255				.31	YES		48	
			K66-2	256				.31	YES		49	
A 940	3		K65-2	255				.31	YES			
			TB7-17E	33				.19	NO		43	
A 941	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 941A	2		SHLD A941					.25	NO			
			E76-8	240				.38	NO			
A 941L			K65-5	255				.31	YES		49	
			K68-14	258				.31	YES			
A 941R			K65-8	255				.31	YES		49	
			K68-11	258				.31	YES			
A 942	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 942A	2		SHLD A942					.25	NO			
			E76-8	240				.38	NO			
A 942L			K65-11	255				.31	YES		49	
			K67-5	257				.31	YES			
A 942R			K65-14	255				.31	YES		49	
			K67-8	257				.31	YES			
A 943	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	
A 943A	2		SHLD A943					.25	NO			
			E76-8	240				.38	NO			
A 943L			K66-5	256				.31	YES		49	
			K67-11	257				.31	YES			
A 943R			K66-8	256				.31	YES		49	
			K67-14	257				.31	YES			
A 944	10				2.50	2.20				2	50, 64, 56	
					2.50	2.20				1	52	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 944A	2		SHLD A944					.25	NO			
			E76-8	240				.38	NO			
A 944L			K66-11	256				.31	YES		49	
			K67-17	257				.31	YES			
A 944R			K66-14	256				.31	YES		49	
			K67-20	257				.31	YES			
A 945	3		K67-1	257				.31	YES			
			K68-1	258				.31	YES			
A 946	3		K67-2	257				.31	YES		48	
			K68-2	258				.31	YES			
A 947	3		K67-2	257				.31	YES			
			TB7-16C	33				.19	NO		43	
A 948	1		K67-10	257				.31	YES			
			TB11-8D	37				.19	NO		42	
A 949	1		K67-16	257				.31	YES			
			TB11-14D	37				.19	NO		42	
A 950	3		P1-A	118				.22	NO			
			K7-7	46				.31	YES		49	
A 951	3		P1-B	118				.31	YES		93	
			TB7-16B	33				.19	NO		43	
A 952	1		P1-C	118				.31	YES		93	
			K25-8	204				.31	YES		49	
A 953	1		P1-D	118				.22	NO			
			TB1-22	103				.25	YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 954	1		P1-U	118				.22	NO		88, 89	
			K25-4	204				.31	YES			
A 955	1		P1-U	118				.22	NO			
			P4-F	117				.22	NO			
A 956	1		P1-V	118				.31	YES		93	
			K25-1	204				.31	YES		49	
A 957	1		P1-W	118				.22	NO		88, 89	
			K25-7	204				.31	YES		49	
A 958	1		P1-X	118				.31	YES		93	
			TB7-12B	33				.19	NO		42	
A 959	1		P1-W	118				.22	NO			
			TB1-24	102				.25	YES			
A 960	1		P2-D*	119				.31	YES		93	
			K7-1	46				.31	YES		49	
A 961	1		P4-K	117				.22	NO			
			P6-D*	114				.22	NO		88, 89	
A 962	1		P4-D*	117				.31	YES		93	
			K8-2	39				.31	YES		47	
A 963	1		P6-N	114				.22	NO			
			K8-13	39				.31	YES		47	
A 964	1		P6-D*	114				.22	NO			
			P8-D*	115				.22	NO		88, 89	
A 965	1		P8-C*	115				.22	NO			
			P9-A	116				.22	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 966	1		P8-D*	115				.31	YES			
			P10-D*	112				.22	NO		88, 89	
A 967	1		P10-D*	112				.22	NO			
			KB-4	39				.31	YES			
A 969	3		TB1-1	111				.25	YES			
			TB6-7B	38				.19	NO		43	
A 970	3		TB6-7A	38				.19	NO		39	
			TB7-15B	33				.19	NO		43	
A 971	3		TB7-15C	33				.19	NO		43	
			TB12-1	182				.25	YES			
A 972	6		TB8-16	34				.31	NO		41	
			TB14-16	265				.31	NO		41	
A 973	6		TB8-2	34				.31	NO		41	
			TB16-16	262				.31	NO		41	
A 974	5		TB8-12	34				.19	NO		40	
			TB10-2	36				.19	NO		40	
A 975	6		TB8-14	34				.31	NO		41	
			TB9-2	35				.31	NO		41	
A 976	6		J30-G	314				.41	YES		46	
			TB15-16	264				.31	NO		41	
A 977	4		XF1-2	147				.31	YES			
			TB5-7	59				.19	NO		40	
A 978	6		XF2-2	146				.31	YES			
			TB5-8	57				.31	NO		41	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 979	4		XF3-2	138				.31	YES			
			T85-9	55				.19	NO		40	
A 980	4		XF4-2	137				.31	YES			
			T85-10	53				.19	NO		40	
A 981	3		E20-BB	22				.38	NO			
			E80-B	24				.38	NO			
A 982	3		E21-BB	3				.38	NO			
			E79-B	23				.38	NO			
A 983	3		E22-BB	2				.38	NO			
			E79-B	23				.38	NO			
A 984	3		E23-BB	4				.38	NO			
			E79-B	23				.38	NO			
A 985	3		E24-BB	6				.38	NO			
			E79-B	23				.38	NO			
A 986	3		E25-BB	7				.38	NO			
			E79-B	23				.38	NO			
A 987	3		E26-BB	9				.38	NO			
			E31-B	11				.38	NO			
A 988	3		E27-BB	10				.38	NO			
			E31-B	11				.38	NO			
A 989	3		E28-BB	14				.38	NO			
			E31-B	11				.38	NO			
A 990	3		E29-BB	15				.38	NO			
			E31-B	11				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 991	3		E30-BB	13				.38	NO			
			E31-B	11				.38	NO			
A 992	4		E31-BB	11				.38	NO			
			TB15-6	264				.31	NO		40	
A 993	3		E32-BB	27				.38	NO			
			EB0-B	24				.38	NO			
A 994	3		E33-BB	28				.38	NO			
			E80-B	24				.38	NO			
A 995	3		E34-BB	31				.38	NO			
			EB0-B	24				.38	NO			
A 996	3		E35-BB	30				.38	NO			
			EB0-B	24				.38	NO			
A 997	3		E36-BB	155				.38	NO			
			E39-B	151				.38	NO			
A 998	3		E37-BB	156				.38	NO			
			E39-B	151				.38	NO			
A 999	3		E38-BB	157				.38	NO			
			E39-B	151				.38	NO			
A 1000	4		E39-BB	151				.38	NO			
			TB15-8	264				.19	NO		40	
A 1001	4		E40-BB	169				.38	NO			
			TB15-9	264				.19	NO		40	
A 1002	3		E41-BB	170				.38	NO			
			E40-B	169				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1003	3		E42-BB	171				.38	NO			
			E40-B	169				.38	NO			
A 1004	3		EB9-B	162				.38	NO			
			E40-B	169				.38	NO			
A 1005	3		E90-BB	163				.38	NO			
			E40-B	169				.38	NO			
A 1006	3		E45-BB	161A				.38	NO			
			E49-B	164				.38	NO			
A 1007	3		E46-BB	160				.38	NO			
			E49-B	164				.38	NO			
A 1008	3		E47-BB	161				.38	NO			
			E49-B	164				.38	NO			
A 1009	3		E48-BB	167				.38	NO			
			E49-B	164				.38	NO			
A 1010	3		E49-BB	164				.38	NO			
			TB15-10	264				.19	NO		39	
A 1011	3		E50-BB	312				.38	NO			
			E81-B	310				.38	NO			
A 1012	3		E51-BB	313				.38	NO			
			EB1-B	310				.38	NO			
A 1013	3		E52-BB	308				.38	NO			
			EB1-B	310				.38	NO			
A 1014	3		E53-BB	309				.38	NO			
			E81-B	310				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1015	3		E54-BB	305				.38	NO			
			E81-B	310				.38	NO			
A 1016	3		E55-BB	306				.38	NO			
			E82-B	272				.38	NO			
A 1017	3		E56-BB	302				.38	NO			
			E88-B	270				.38	NO			
A 1018	3		E57-BB	299				.38	NO			
			E64-B	277				.38	NO			
A 1019	3		E58-BB	297				.38	NO			
			E64-B	277				.38	NO			
A 1020	3		E59-BB	296				.38	NO			
			E82-B	272				.38	NO			
A 1021	3		F60-BB	294				.38	NO			
			E82-B	272				.38	NO			
A 1022	3		E62-BB	292				.38	NO			
			E88-B	270				.38	NO			
A 1023	3		E63-BB	278				.38	NO			
			E64-B	277				.38	NO			
A 1024	4		F64-BB	277				.38	NO			
			TB15-11	264				.19	NO		40	
A 1025	3		E65-BB	276				.38	NO			
			E88-B	270				.38	NO			
A 1026	3		E66-BB	273				.38	NO			
			E88-B	270				.38	NO			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1027	3		E67-BB	269				.38	NO			
			E88-B	270				.38	NO			
A 1028	3		E68-BB	179				.38	NO			
			E77-B	259				.38	NO			
A 1029	3		E69-BB	181				.38	NO			
			E77-B	259				.38	NO			
A 1031	3		E71-BB	234				.38	NO			
			E78-B	239				.38	NO			
A 1032	3		E72-BB	235				.38	NO			
			E78-B	239				.38	NO			
A 1033	3		E73-BB	236				.38	NO			
			E78-B	239				.38	NO			
A 1034	3		E74-BB	237				.38	NO			
			E78-B	239				.38	NO			
A 1035	3		E75-BB	238				.38	NO			
			E78-B	239				.38	NO			
A 1036	3		E76-BB	240				.38	NO			
			E77-B	259				.38	NO			
A 1037	4		F77-BB	259				.38	NO			
			TB15-7	264				.19	NO		40	
A 1038	4		E78-BB	239				.38	NO			
			TB15-5	264				.19	NO		40	
A 1039	4		E79-BB	23				.38	NO			
			TB15-2	264				.19	NO		40	

MIL 2064 4-63

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 180 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1040	4		E80-BB	24				.38	NO			
			TB15-4	264				.19	NO		40	
A 1041	4		E81-BB	310				.38	NO			
			TB15-12	264				.19	NO		40	
A 1042	4		E82-BB	272				.38	NO			
			TB15-13	264				.19	NO		40	
A 1047	4		E87-BB	263				.38	NO			
			TB16-6	262				.19	NO		40	
A 1048	4		K6-10	47				.31	YES		47	
			E15	42				.25	YES			
A 1049	4		E88-BB	270				.38	NO			
			TB15-14	264				.19	NO		40	
A 1051	3		E43-BB	152				.38	NO			
			E39-B	151				.38	NO			
A 1052	3		E44-BB	153				.38	NO			
			E39-B	151				.38	NO			
A 1053	3		K47-1	226				.31	YES			
			K63-1	253				.31	YES			
A 1054	9				2.80	2.50				2	52, 63, 55	
					2.80	2.50				1	53	
A 1054A	2		SHLD A1054									
			E65-B	276				.25	NO			
								.38	NO			
A 1054W			J43-E	275				.22	NO			
			TB6-3D	38				.19	NO		43	

MIL 2064 4-63

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 181 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1055	10				2.80	2.50				2	50, 64, 56	
					2.80	2.50				1	52	
A 1055A	2		SHLD A1055									
			E33-B	28				.25	NO			
								.38	NO			
A 1055L			J10-F*	29				.22	NO			
			J34-D	301				.22	NO			
A 1055R			J10-E*	29				.22	NO			
			J34-C	301				.22	NO			
A 1056	7				2.80	2.50				2	52, 63, 54	
					2.80	2.50				1	53	
A 1056A	2		SHLD A1056									
			E33-B	28				.25	NO			
								.38	NO			
A 1056W			J10-G*	29				.22	NO			
			XF17-2	130				.31	YES			
A 1057	7				2.80	2.50				2	52, 63, 54	
					2.50	2.20				1	53	
A 1057A	2		SHLD A1057									
			E33-B	28				.25	NO			
								.38	NO			
A 1057W			J10-H*	29				.22	NO			
			XF18-2	129				.31	YES			
A 1060	3		E61-BB	271				.38	NO			
			E82-B	272				.38	NO			
A 1061	3		J31-D*	311				.22	NO			
			TB13-16D	266				.19	NO		43	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 182 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1062	3		E91-8B	21				.38	NO			
			E79-B	23				.38	NO			
A 1063	1		P10-T	112				.22	NO			
			P11-A	113				.22	NO			
A 1064	1		P10-U	112				.22	NO			
			P11-B	113				.22	NO			
A 1065	1		P10-V	112				.22	NO			
			P11-C	113				.22	NO			
A 1066	1		P10-W	112				.22	NO			
			P11-D	113				.22	NO			
A 1067	1		P10-X	112				.22	NO			
			P11-E	113				.22	NO			
A 1068	1		P10-Y	112				.22	NO			
			P11-F	113				.22	NO			
A 1069	1		P10-Z	112				.22	NO			
			P11-G	113				.22	NO			
A 1070	1		P10-A*	112				.22	NO			
			P11-H	113				.22	NO			
A 1071	1		P10-B*	112				.22	NO			
			P11-J	113				.22	NO			
A 1072	1		P10-C*	112				.22	NO			
			P11-K	113				.22	NO			
A 1073	4		E92-8B	148				.38	NO			
			T816-11	262				.19	NO		40	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B 4	SHEET 183 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1074	3		E93-8B	172				.38	NO			
			E40-B	169				.38	NO			
A 1075	3		E94-8B	303				.38	NO			
			E88-B	270				.38	NO			
A 1076	4		J30-K	314				.41	YES		46	
			T815-3	264				.19	NO		40	
A 1078	3		J9-C	26				.22	NO			
			J26-C	159				.22	NO			
A 1083	3		J7-C	20				.22	NO			
			XF19-1	136				.31	YES			
A 1084	3		J7-D	20				.22	NO			
			T87-15E	33				.19	NO		43	
A 1085	3		T87-8D	33				.19	NO		43	
			K54-16	241				.31	YES		48	
A 1086	3		T87-8E	33				.19	NO		43	
			K42-19	221				.31	YES		48	
A 1087	3		K42-19	221				.31	YES			
			K44-19	223				.31	YES		48	
A 1088	3		K44-19	223				.31	YES			
			K46-19	225				.31	YES		48	
A 1089	3		K46-19	225				.31	YES			
			K48-19	227				.31	YES		48	
A 1090	3		K48-19	227				.31	YES			
			K50-19	229				.31	YES		48	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B 4	SHEET 184 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1091	3		K50-19	229				.31	YES			
			K52-19	231				.31	YES		49	
A 1092	3		K54-16	241				.31	YES			
			K57-16	247				.31	YES		48	
A 1093	3		K57-16	247				.31	YES			
			K61-16	251				.31	YES		48	
A 1094	3		K61-16	251				.31	YES			
			K65-16	255				.31	YES		49	
A 1097	3		T87-12F	33				.19	NO		43	
			K2-12	44				.19	NO		45	
A 1098	3		T87-11E	33				.19	NO		43	
			XF19-2	136				.31	YES			
A 1099	3		T87-8C	33				.19	NO		43	
			XF19-2	136				.31	YES			
A 1105	3		T86-6C	38				.19	NO		43	
			T88-6	34				.19	NO		39	
A 1106	6		J40-X	290				.41	YES		46	
			T815-15	264				.31	NO		41	
A 1107	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 1107A	2		SHLD A1107					.25	NO			
			E48-B	167				.38	NO			
A 1107L			J27-C	168				.22	NO			
			J3-FF	8				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B 4	SHEET 185 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1107R			J27-A	168				.22	NO			
			J3-EE	8				.22	NO			
A 1108	12				2.30 2.50	2.00 2.20				2 1	90, 67, 59 50	
A 1108A	2		SHLD A1108					.25	NO			
			E48-B	167				.38	NO			
A 1108L			J25-C	154				.22	NO			
			E6	145				.25	YES			
A 1108R			J25-A	154				.22	NO			
			XF5-1	144				.31	YES			
A 1110	12				2.50 2.50	2.20 2.20				2 1	90, 67, 59 50	
A 1110A	2		SHLD A1110					.25	NO			
			E24-B	6				.38	NO			
A 1110L			J3-L	8				.22	NO			
			J25-J*	154				.22	NO			
A 1110R			J3-K	8				.22	NO			
			J25-I*	154				.22	NO			
A 1111	3		J25-Q*	154				.22	NO			
			T812-19	191				.25	YES			
A 1112	3		J42-E*	275				.22	NO			
			T812-17	190				.25	YES			
A 1113	3		J43-F	275				.22	NO			
			K3-10	50				.31	YES		47	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B 4	SHEET 186 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1114	3		K3-8	50				.31	YES		47	
			K4-9	49				.31	YES		47	
A 1115	3		K4-10	49				.31	YES		47	
			T814-14	265				.19	NO		39	
A 1116	3		J4-A	12				.22	NO			
			J22-L	158				.22	NO			
A 1117	3		J4-P	12				.22	NO			
			T813-9A	266				.19	NO		43	
A 1118	3		J4-R	12				.22	NO			
			J22-C	158				.22	NO			
A 1119	3		J4-LL	12				.22	NO			
			J33-G	304				.22	NO			
A 1120	3		J4-MM	12				.22	NO			
			J33-H	304				.22	NO			
A 1121	3		J4-NN	12				.22	NO			
			J33-E	304				.22	NO			
A 1122	3		J4-PP	12				.22	NO			
			J33-F	304				.22	NO			
A 1123	9				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 1123A	2		SHLD A1123					.25	NO			
			E33-B	28				.38	NO			
A 1123W			J10-GG	29				.22	NO			
			J34-T	301				.22	NO			

MIL 2084 4-83

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 187 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1124	3		J10-HH	29				.22	NO			
			T817-12D	261				.19	NO		43	
A 1125	3		J25-N*	154				.22	NO			
			T811-19B	37				.19	NO		43	
A 1126	3		J34-F	301				.22	NO			
			T811-19C	37				.19	NO		43	
A 1127	3		J31-D	311				.22	NO			
			R2-1	317				.25	YES			
A 1128	3		J31-E	311				.22	NO			
			T86-6D	38				.19	NO		43	
A 1129	3		J32-D	307				.22	NO			
			R1-1	315				.25	YES			
A 1130	3		J32-E	307				.22	NO			
			T86-5C	38				.19	NO		43	
A 1132	9				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 1132A	2		SHLD A1132					.25	NO			
			E32-B	27				.38	NO			
A 1132W			J10-N	29				.22	NO			
			J34-M	301				.22	NO			
A 1133	9				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 1133A	2		SHLD A1133					.25	NO			
			E65-B	276				.38	NO			

MIL 2084 4-83

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 188 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1133W			J43-U	275				.22	NO			
			K8-10	39				.31	YES		47	
A 1134	9				2.80	2.50				2	52, 63, 55	
					2.00	1.70				1	53	
A 1134A	2		SHLD A1134					.25	NO			
			E32-B	27				.38	NO			
A 1134W			J10-M	29				.22	NO			
			J39-T*	291				.22	NO			
A 1135	3		R1-2	316				.25	YES			
			T86-2C	38				.19	NO		43	
A 1136	3		R2-2	318				.25	YES			
			T86-3E	38				.19	NO		43	
A 1137	3		J11-G	32				.22	NO			
			E92-8	148				.38	NO			
A 1138	12				1.80	1.50				2	90, 67, 59	
					2.50	2.20				1	50	
A 1138A	2		SHLD A1138					.25	NO			
			E51-B	313				.38	NO			
A 1138L			J31-LL	311				.22	NO			
			J35-N*	300				.22	NO			
A 1138R			J31-KK	311				.22	NO			
			J35-M*	300				.22	NO			
A 1139	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 189 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1139A	2		SHLD A1139					.25	NO			
			E57-B	299				.38	NO			
A 1139L			J35-H*	300				.22	NO			
			J37-HH	295				.22	NO			
A 1139R			J35-G*	300				.22	NO			
			J37-GG	295				.22	NO			
A 1140	3		J37-JJ	295				.22	NO			
			K28-3	207				.31	YES			
A 1141	3		J31-MM	311				.22	NO			
			K27-3	206				.31	YES			
A 1142	3		E15	42				.25	YES			
			T811-20C	37				.19	NO		43	
A 1143	3		J42-D	279				.22	NO			
			J43-M	275				.22	NO			
A 1144	3		J1-P	1				.22	NO			
			K27-6	206				.31	YES		46	
A 1145	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 1145A	2		SHLD A1145					.25	NO			
			E68-B	179				.38	NO			
A 1145L			K19-15	177				.31	YES			
			K30-4	209				.31	YES		49	
A 1145R			K19-17	177				.31	YES		49	
			K30-7	209				.31	YES		49	

MIL 2084 4-83

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE-NONE	REV LTR B	SHEET 190 OF 199

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1146	12				2.50	2.20				2	90, 67, 59	
					2.30	2.00				1	50	
A 1146A	2		SHLD A1146					.25	NO			
			E68-B	179				.38	NO			
A 1146L			K19-10	177				.31	YES		49	
			K30-18	209				.31	YES			
A 1146R			K19-13	177				.31	YES		49	
			K30-20	209				.31	YES		49	
A 1147	12				2.50	2.20				2	90, 67, 59	
					2.30	2.00				1	50	
A 1147A	2		SHLD A1147					.25	NO			
			E68-B	179				.38	NO			
A 1147L			K19-4	177				.31	YES		49	
			K30-15	209				.31	YES			
A 1147R			K19-7	177				.31	YES		49	
			K30-17	209				.31	YES		49	
A 1148	12				2.30	2.00				2	90, 67, 59	
					2.50	2.20				1	50	
A 1148A	2		SHLD A1148					.25	NO			
			E68-B	179				.38	NO			
A 1148L			K19-18	177				.31	YES			
			K30-10	209				.31	YES		49	
A 1148R			K19-20	177				.31	YES		49	
			K30-13	209				.31	YES		49	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1149	12				2.50	2.20				2	90, 67, 59	
					2.30	2.00				1	50	
A 1149A	2		SHLD A1149					.25	NO			
			E68-B	179				.38	NO			
A 1149L			K29-10	208				.31	YES		47	
			K30-9	209				.31	YES		49	
A 1149R			K29-8	208				.31	YES			
			K30-12	209				.31	YES		49	
A 1150	3		K20-6	178				.31	YES		47	
			TB12-21	194				.25	YES			
A 1151	3		K27-6	206				.31	YES			
			K28-6	207				.31	YES		47	
A 1152	3		J7-C*	20				.22	NO			
			AR20-1	131				.31	YES			
A 1153	3		J43-N	275				.22	NO			
			P2-B*	119				.31	YES		92	
A 1154	3		J44-R	274				.22	NO			
			P6-B*	114				.31	YES		92	
A 1155	9				2.50	2.20				2	52, 63, 55	
					2.50	2.20				1	53	
A 1155A	2		SHLD A1155					.25	NO			
			E88-B	270				.38	NO			
A 1155W			TB17-12C	261				.19	NO		43	
			K8-8	39				.31	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1156	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 1156A	2		SHLD A1156					.25	NO			
			E33-B	28				.38	NO			
A 1156L			J10-KK	29				.22	NO			
			TB17-12F	261				.19	NO		43	
A 1156R			J10-JJ	29				.22	NO			
			TB17-11F	261				.19	NO		43	
A 1157	12				2.50	2.20				2	90, 67, 59	
					2.50	2.20				1	50	
A 1157A	2		SHLD A1157					.25	NO			
			E62-B	292				.38	NO			
A 1157L			J34-N	301				.22	NO			
			TB17-12A	261				.19	NO		43	
A 1157R			J34-L	301				.22	NO			
			TB17-11A	261				.19	NO		43	
A 1158	3		K26-7	205				.31	YES		47	
			TB6-11B	38				.19	NO		43	
A 1159	3		K26-5	205				.31	YES		47	
			TB6-16B	38				.19	NO		43	
A 1160	3		K26-1	205				.31	YES		47	
			TB12-8	186				.25	YES			
A 1161	3		J1-X*	1				.22	NO			
			K26-3	205				.31	YES		47	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1162	3		J1-U	1				.22	NO			
			TB12-16	189A				.25	YES			
A 1163	3		J1-V	1				.22	NO			
			TB12-15	189B				.25	YES			
A 1164	3		K26-4	205				.31	YES		47	
			TB12-16	189A				.25	YES			
A 1165	3		K26-11	205				.31	YES		47	
			TB12-15	189B				.25	YES			
A 1166	3		J47-F	281				.22	NO			
			K4-6	49				.31	YES			
A 1167	3		J34-Y	301				.22	NO			
			K8-1	39				.31	YES			
A 1168	3		J47-C	281				.22	NO			
			P2-C*	114				.31	YES		92	
A 1169	3		J47-E	281				.22	NO			
			P3-A	120				.31	YES		92	
A 1170	3		J1-T	1				.22	NO			
			J47-D	281				.22	NO			
A 1171	3		J1-W	1				.22	NO			
			J47-P	281				.22	NO			
A 1172	3		J1-X	1				.22	NO			
			J47-R	281				.22	NO			
A 1173	3		J7-M*	20				.22	NO			
			J40-F	290				.28	YES		47	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1174	3		J7-N*	20				.22	NO			
			J40-F*	290				.28	YES		47	
A 1175	3		J7-P*	20				.22	NO			
			J40-B*	290				.28	YES		47	
A 1176	3		J27-W	168				.22	NO			
			J40-A	290				.28	YES			
A 1177	3		J27-X	168				.22	NO			
			J46-A	267				.28	YES			
A 1178	3		J27-Y	168				.22	NO			
			J40-C	290				.28	YES			
A 1179	3		J27-Z	168				.22	NO			
			J46-C	267				.28	YES			
A 1180	3		J27-U*	168				.22	NO			
			J40-F	290				.28	YES			
A 1181	3		J27-V*	168				.22	NO			
			J40-A*	290				.28	YES			
A 1182	3		J27-W*	168				.22	NO			
			J46-F*	267				.28	YES			
A 1183	3		J27-X*	168				.22	NO			
			J40-F*	290				.28	YES			
A 1184	3		J30-H	314				.41	YES		58	
			J40-G	290				.28	YES			
A 1185	3		J30-F	314				.41	YES		58	
			J46-G	267				.28	YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 195 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1186	3		J30-J	314				.41	YES		58	
			J40-B*	290				.28	YES			
A 1187	3		J7-L	20				.22	NO			
			T85-8	57				.19	NO		39	
A 1188	3		J7-M	20				.22	NO			
			T88-15	34				.19	NO		39	
A 1189	3		J30-L	20				.41	YES		58	
			T87-14D	33				.19	NO		43	
A 1190	3		J30-M	20				.41	YES		58	
			T813-3B	266				.19	NO		43	
A 1191	3		J47-J	281				.22	NO			
			T86-6E	38				.19	NO		43	
A 1192	3		J10-A*	29				.22	NO			
			J47-G	281				.22	NO			
A 1193	3		J10-B*	29				.22	NO			
			T816-5	262				.19	NO		39	
A 1194	3		J47-K	281				.22	NO			
			R2-1	317				.25	YES			
A 1195	3		J47-L	281				.22	NO			
			T86-6F	38				.19	NO		43	
A 1196	16				2.30	2.00				2	90, 68, 60	
					2.50	2.20				1	50	
A 1196A	2		SHLD A1196					.25	NO			
			E48-B	167				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR B	SHEET 196 OF 199

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1196L			J27-T	168				.22	NO			
			J2-J	5				.22	NO			
A 1196R			J27-V	168				.22	NO			
			J2-G	5				.22	NO			
A 1196Y			J27-U	168				.22	NO			
			J2-H	5				.22	NO			
A 1197	3		J11-C	32				.22	NO			
			J26-D	159				.22	NO			
A 1198	3		J11-E	32				.22	NO			
			J26-E	159				.22	NO			
A 1199	3		J11-D	32				.22	NO			
			J26-F	159				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902282
SCALE - NONE	REV LTR C	SHEET 197 OF 199

MIL 2064 4-63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

PARTIAL VIEW E-E

DATUM A

1.38-1.88 TYPICAL STRAIN LOOP FOR CONNECTORS J30 THRU J47

E

KEYWAY LOCATION FOR CONNECTORS J30 THRU J47

J46 267 — J40 290 — J39 291 — J34 301 — J44 274 — J38 293 — J33 304 — J37 295 — J32 307 — J36 298 — J31 311 — J35 300 — J30 314

E61 E62 E63 E64 E65 E66 E67 E68 E69 E70 E71 E72 E73 E74 E75 E76 E77 E78 E79 E80 E81

272 273 276 278 292 294 296 297 299 302 303 305 306 308 309 310 312 313

TB17 241 (68 COND)

TB16 262 (14 COND)

TB15 264 (16 COND)

TB14 245 (7 COND)

TB13 266 (79 COND)

E87 263

DATUM A

SECTION C-C

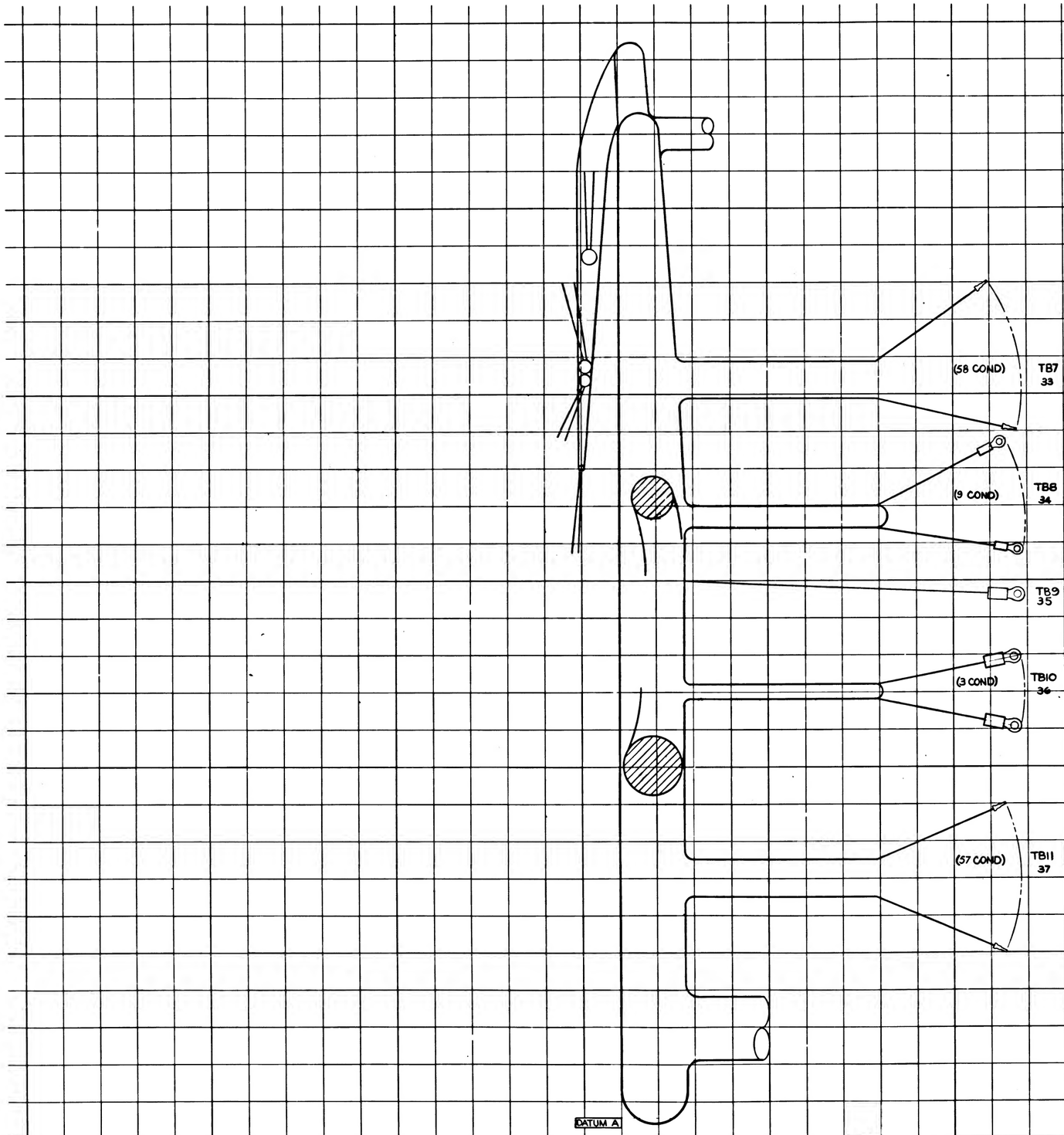
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	ACSP PH		
MATERIAL —	DRAWN Thomas E. Wells 4 FEB 65	WIRING HARNESS "A"	
	CHECKED		
	APPROVAL		
	APPROVAL		
CONTRACT NAS9-497	NASA APPROVAL	CODE IDENT NO J	SIZE 1902282
	MIT APPROVAL	SCALE FULL	SHEET 1 OF 5

1902282

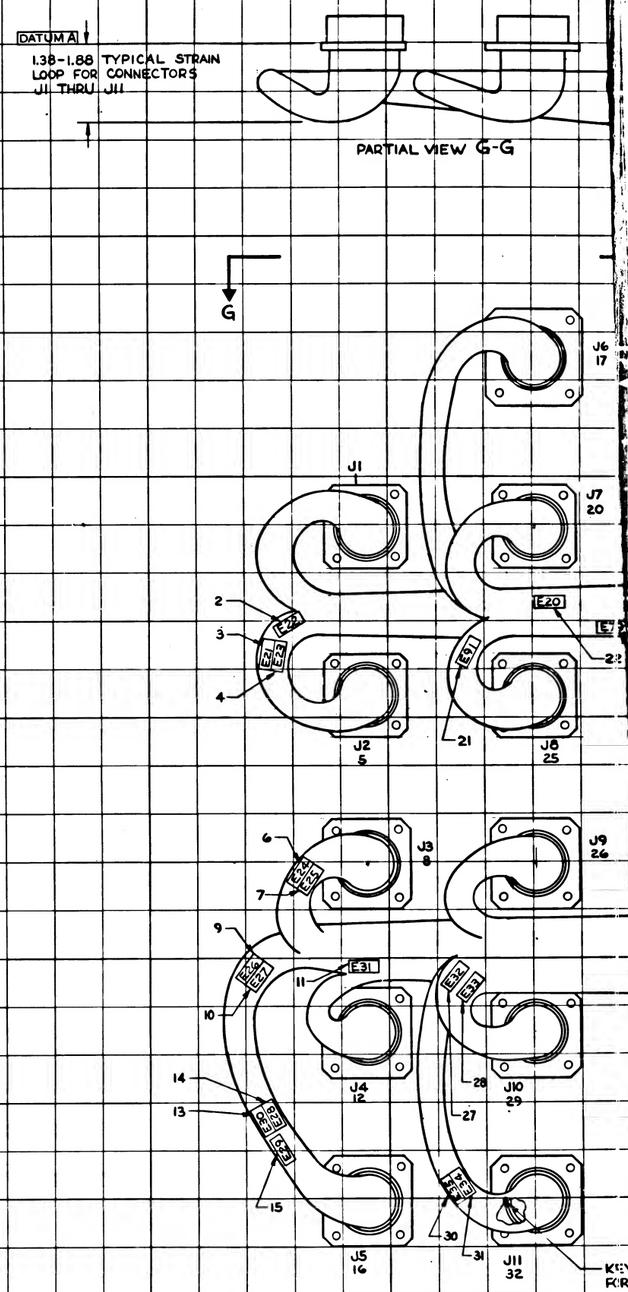
37A1902282

ANTHE 1805585

SCALE 1=8
SHT 1 OF 2
1902282



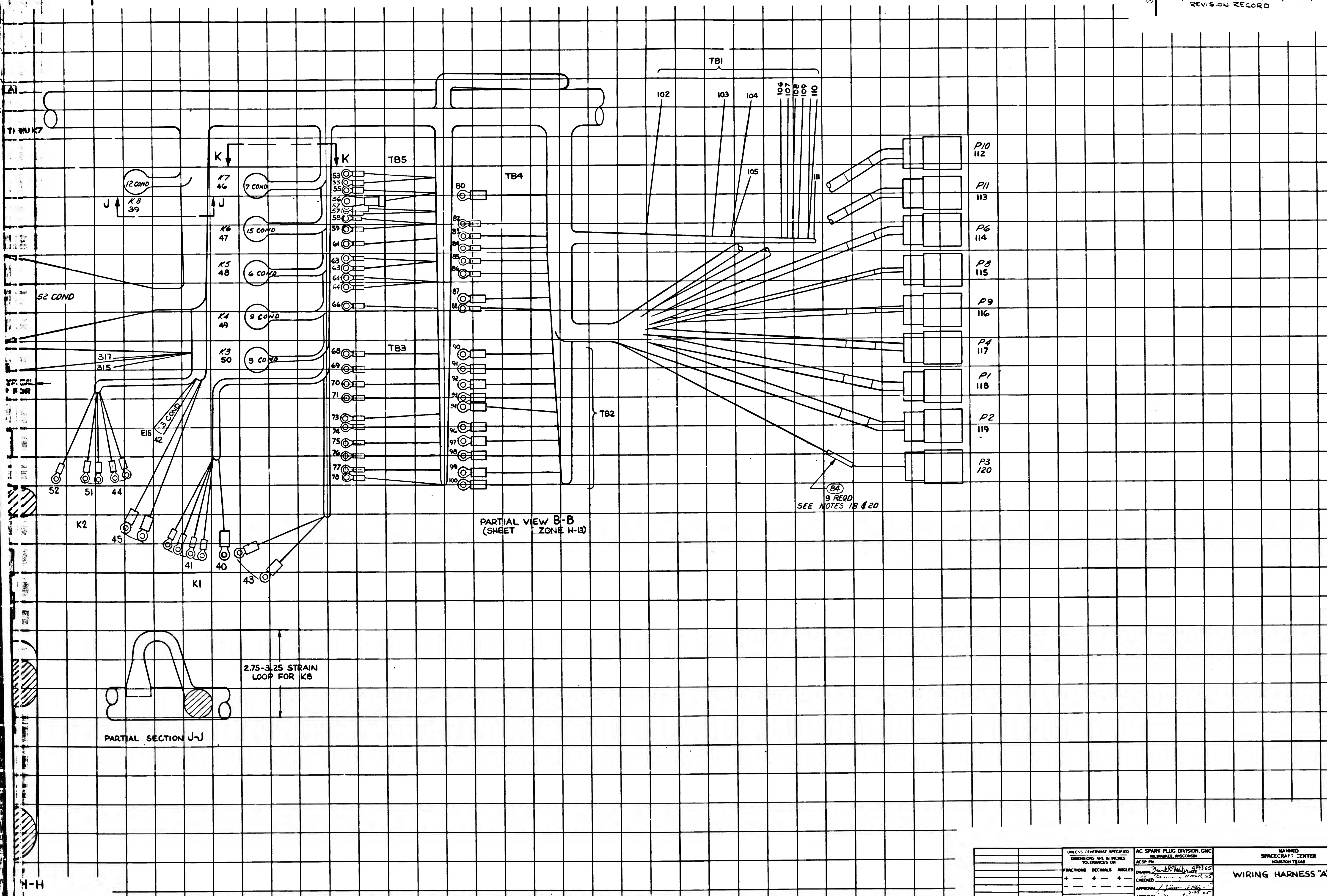
SECTION D-D



1902282 REV LTR S SH

15-1-90-2282

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



1902282

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Frank R. Walker DATE 4 FEB 65
CHECKED 11 MAR 65
APPROVAL 12 MAR 65
APPROVAL M. Watson 3-25-65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS "A"

CODE IDENT NO. | SIZE E | 1902282
SCALE FULL | SHEET OF

2/1902282

180S58S

PARTIAL SECTION K-K

DATUM A

2.00-2.50 TYPICAL STRAIN LOOP FOR K3 THRU K7

12 COND K8 39

J

TB6 38

52 COND

318

317

316

315

2.50-3.00 TYPICAL STRAIN LOOP FOR RELAYS K1? THRU K68

E15

3 COND K2

52 51 44 45 41

K2

PARTIAL SECTION J-

SECTION H-H

TB12

182 183 184 186 188 189 189A 190 191 192 193 194 200 201

H

7 COND K17 175

11 COND K18 176

24 COND K19 177

14 COND K20 178

E68 179

E69 181

K22 202 5 COND

K25 204 6 COND

K26 205 6 COND

K27 206 8 COND

K28 207 8 COND

K29 208 9 COND

K30 209 22 COND

14 COND K38 217

8 COND K40 219

8 COND K41 220

19 COND K42 221

14 COND K43 222

28 COND K44 223

19 COND K45 224

19 COND K46 225

14 COND K47 226

28 COND K48 227

19 COND K49 228

17 COND K50 229

16 COND K51 230

19 COND K52 231

19 COND K53 232

E71 234

E72 235

E73 236

E74 237

E75 238

E78 239

E76 240

E77 259

24 COND K54 241

12 COND K55 242

9 COND K56 243

18 COND K57 247

14 COND K58 248

28 COND K59 249

16 COND K60 250

22 COND K61 251

18 COND K62 252

28 COND K63 253

16 COND K64 254

21 COND K65 255

18 COND K66 256

28 COND K67 257

16 COND K68 258

244 E2 245 E3 246 E4

DATUM A

H

PARTIAL VIEW A-A
(SEE SHEET ZONE A-13)

1902282 REV E SH 00

16 15 14 13 12 11 10 9

H G F E D C B A

1/1190228?

APOLLO G&N Specification
PS1902285 A
Original Issue Date: MAR 26 1965
Release Authority: TDRR 17837
Class A Release

PROCUREMENT SPECIFICATION

FOR

CURRENT SOURCE MONITOR

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals MIT	Approvals NASA
9-3-65	A	17837	ALL SHEETS		

This specification consists of page 1 to 16 inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP
		3-23-65	

3.2.4 Dimensions, Finish, and Marking. The dimensions, finish, and marking of the monitor shall comply with the requirements specified herein and on applicable drawings.

3.2.5 Serial Numbers. Each monitor shall be identified by a serial number assigned in accordance with Specification ND-1002023.

3.2.6 Workmanship. The fabrication and finish of the monitor, its assemblies, sub-assemblies, and parts shall be such as to produce a unit free from any defect that would affect proper functioning in service.

3.2.7 Interchangeability. Unless otherwise specified, the monitor and its component parts shall be physically and functionally interchangeable without selection or fitting.

3.2.8 General Specification. Unless otherwise specified, the requirements of Specification ND-1002018 apply as requirements of this specification.

3.2.9 Electrical

3.2.9.1 Electrical Inputs. The monitor shall perform as specified herein with the following electrical inputs:

a. AC supply voltage: 115.0±11.5V, 60±5 cps
b. Input signal voltage: 0.9 to 1.5 vdc and 5 to 7 vdc

3.2.9.2 Accuracy. The monitor shall be capable of measuring any input voltage from 0.9 to 1.5 vdc and from 5 to 7 vdc with an accuracy of ±10 parts per million.

3.2.9.3 Resolution. The monitor shall be capable of making voltage measurements with a resolution of 0.2μv for input voltages from 0.9 to 1.5 vdc, and 1 μv for input voltages from 5 to 7 vdc.

TABLE I

CALIBRATION OF 100 OHM SECTIONS

RESISTOR USED*1	MUELLER BRIDGE CONNECTIONS TO MONITOR				TRIMPOT ADJUSTMENT
	C*2	C adj*3	T*3	t*2	
R1 (Posts 1 & 2)	S1A-6A	Lead A6	Post 4	S1A-5A	none
R2 (Posts 3 & 4)	S1A-5A	Post 2	Post 5	S1A-4A	R11
R3 (Posts 5 & 6)	S1A-4A	Post 3	Post 8	S1A-3A	R13
R4 (Posts 7 & 8)	S1A-3A	Post 6	Post 9	S1A-2A	R15
R5 (Posts 9 & 10)	S1A-2A	Post 7	Post 11	S1A-1A	R17
R7 (Posts 13 & 14)	S1A-7A	Post 12	Post 17	S1A-4C	R21

*1 The post numbers are located on the resistor ratio set as shown on Drawing 1015807, and are identified on Drawing 1902286.

*2 The S numbers refer to switch terminals as shown on Drawing 1902286.

*3 These are potential leads and shall be fastened securely to the post terminals by means of an additional nut per post.

4.1.3.4.1.2 900, 4900, and 1000 Ohm Sections

4.1.3.4.1.2.1 Adjustment of Resistor R6. Resistor R6 shall be adjusted as follows:

a. Connect the current leads to switch points S1A-6A and S1A-7A as shown in Figure 1.

NOTE: The lead to the terminal of the voltage divider (Hi) is lead A6 removed from terminal A1-A10 of the precision voltage reference potted assembly.

b. Set the voltage divider dials to 0.642857.

c. Close the test switch and adjust current to 5.0 ±0.5 ma.

d. Null trimpot R19 of resistor R6 to a ratio accuracy of within ±5 ppm with respect to the 500 ohm section.

4.1.3.4.1.2.2 Adjustment of Resistor R8. Resistor R8 shall be adjusted as follows:

a. Connect the current leads to switch points S1A-6A and S1A-8B as shown in Figure 2.

b. Set the voltage divider dials to 0.765625.

c. Close the test switch and adjust current to 1.0±0.1 ma.

d. Null trimpot R23 of resistor R8 to a ratio accuracy of within ±6 ppm with respect to the 1500 ohm section.

4.1.3.4.1.2.3 Adjustment of Resistor R9. Resistor R9 shall be adjusted as follows:

a. Connect the current leads to switch points S1A-6C and S1A-8C as shown in Figure 3.

b. Set the voltage divider dials to 0.830508.

c. Close the test switch and adjust current to 1.0±0.1 ma.

d. Null trimpot R25 of resistor R9 to a ratio accuracy of within ±7 ppm with respect to the 4900 ohm section.

e. Connect lead A6 to the precision voltage reference output A1-A10 as shown on Drawing 1902291.

4.1.3.4.2 Continuity. The continuity check shall be performed in accordance with Table II.

TABLE II

CONTINUITY

TERMINAL POINTS		SWITCH SETTINGS			RESISTANCE (Ohms)
From	To	VOLTAGE RANGE Switch	SELECTOR Switch	CAL-OPERATE Switch (S3)	
J2-1	J2-2	Any Position*1	"ZERO"	"OPERATE"	1 meg, min
↑	↑	↕	"MEASURE"	"OPERATE"	↕
↕	↕	↕	"STANDARDIZE"	"OPERATE"	↕
↕	↕	↕	"STANDARDIZE"	"CAL"	↕
↕	↕	↕	"MEASURE"	↑	↕
↕	↕	Any Position*1	"ZERO"	↕	↕
↕	↕	"5-6" or "6-7"	"MEASURE"	↕	↕
↕	↕	"5-6" or "6-7"	"STANDARDIZE"	↕	↕
↕	J2-2	"5-6" or "6-7"	"ZERO"	↕	↕
↕	J2-7	Any Position*1	"ZERO"	↕	↕
↕	↕	↕	"MEASURE"	↕	↕
↕	↕	↕	"STANDARDIZE"	"CAL"	↕
↕	↕	↕	"STANDARDIZE"	"OPERATE"	↕
↕	↕	↕	"MEASURE"	↕	↕
↕	↕	Any Position*1	"ZERO"	↕	↕
↕	↕	"5-6" or "6-7"	"ZERO"	↕	↕
↕	↕	↕	"MEASURE"	↕	↕
↕	↕	↕	"STANDARDIZE"	"OPERATE"	↕
↕	↕	↕	"STANDARDIZE"	"CAL"	↕
↕	↕	↕	"MEASURE"	"CAL"	↕
J2-1	↕	"5-6" or "6-7"	"ZERO"	"CAL"	↕
J2-2	↕	All Positions	Any	"CAL"	↕
J2-2	J2-7	All Positions	Any	"OPERATE"	1 meg, min

e. Repeat 4.2.2.d until a null within ±5 μv is achieved and calculate the corrected voltage of the six saturated standard cells as follows:

$$V_A = V_M = V_M \left(\frac{V_{25°C} - V_T}{6}\right)$$

where V_A = corrected voltage of six saturated standard cells

V_M = measured voltage (VOLTAGE RANGE switch setting plus VOLTAGE dials settings)

$V_{25°C}$ = voltage of SC1 through SC6 as determined in 4.1.3.4.3.h at a temperature of 25°C

V_T = voltage of SC1 through SC6 to be determined as in 4.1.3.4.3.h at a temperature calculated in 4.2.2.b.

The corrected voltage shall be within ±60μv of the sum of voltages of the six saturated standard cells as listed on their calibration cards.

f. Wait 24 hours, then with the VOLTAGE RANGE switch set to the "6-7" position, the VOLTAGE dials set to any value, and the SELECTOR switch set to the "STANDARDIZE" position, adjust and lock the STANDARDIZE control for a null within ±5 μv as measured between the conductors of J3. Return the SELECTOR switch to "ZERO".

g. Repeat 4.2.2.b.

h. Repeat 4.2.2.c through e, except in 4.2.2.e, V_T shall be as follows:

V_T = voltage of SC1 through SC6 as determined in 4.1.3.4.3.h at a temperature calculated in 4.2.2.g.

4.3 QUALIFICATION AND REQUALIFICATION TESTS. Qualification and requalification tests shall consist of the tests specified in 4.2.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. The monitor shall be prepared for delivery in accordance with Specification ND1002214.

6. NOTES. None.

Notice: When APOLLO G&N drawings, specifications, or other data are used for any purpose other than in connection with a definitely related NASA procurement operation, NASA thereby incurs no responsibility nor any obligation whatsoever; and the fact that NASA may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any right or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

APOLLO G&N Specification
PS1902285 B
Original Issue Date: MAR 26 1965
Release Authority: TDRR 17837
Class A Release

PROCUREMENT SPECIFICATION

FOR

CURRENT SOURCE MONITOR

Record of Revisions

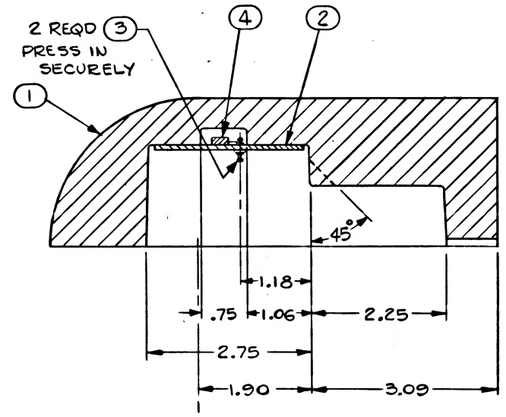
Date	Revision Letter	TDRR No.	Pages Revised	Approvals MIT	Approvals NASA
(M) 8-3-65	A	17837	ALL SHEETS		
5/18/65	B	19092	7, 10, 16	MGM	ACM

This specification consists of page 1 to 16 inclusive.

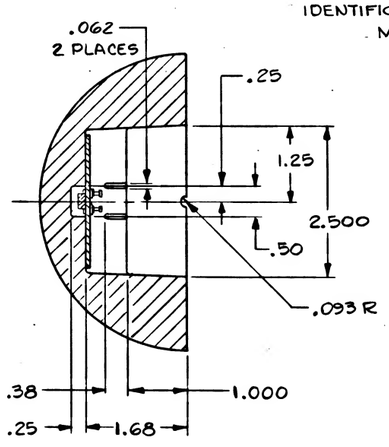
APPROVALS	NASA/MSC	MIT/IL	ACSP
		3-23-65	

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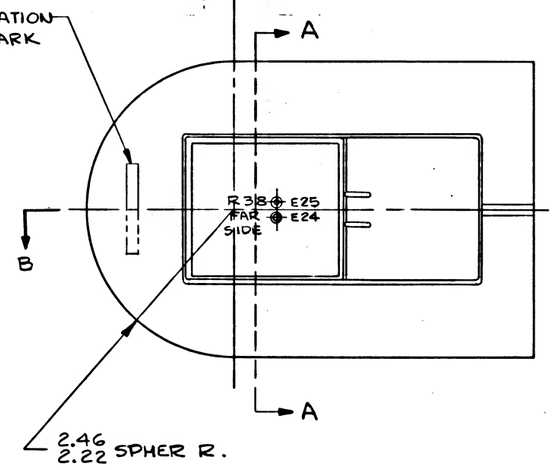
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: POLYURETHANE FOAM SCD 1016193 & SCD 1016185
3. UNLESS OTHERWISE SPECIFIED:
   a. ALL DRAFT ANGLES = 2°
   b. ALL RADII = .06
4. IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES 267)
5. BOND ITEM (4) TO ITEM (2) AND ITEM (2) TO ITEM (1) PER ND1002004 TYPE I USING ITEMS 5 & 6.
6. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING



SECTION B-B



SECTION A-A



SEE NOTE 6
SEE NOTE 6
SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
6	AR	1010683	CURING AGENT, AMINE
5	AR	1010682	EPOXY RESIN
4	1	1015811-001	RESISTOR-FIXED
3	2	1010788-1	TERMINAL, TURRET
2	1	1902294	HEAT SINK, THERMO CONTAINER
1	1	1902296-001	INSULATING BLOCK, UPPER

LIST OF PARTS AND MATERIALS

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		UPGRADED TO CLASS "A" PER TDRR 17837		4 MAR 65	CMH

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	
FRACTIONS ±	DECIMALS ± .06
ANGLES ± .5°	
DO NOT SCALE THIS DRAWING	
MATERIAL	
CONTRACT NAS 9-497	

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	
ACSP PN	
DRAWN	20 JAN 65 DATE
CHECKED Ed Foote 22 JAN 65	
APPROVAL	
APPROVAL	
NASA APPROVAL	MAR 8 1965
MIT APPROVAL	MAR 8 1965

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

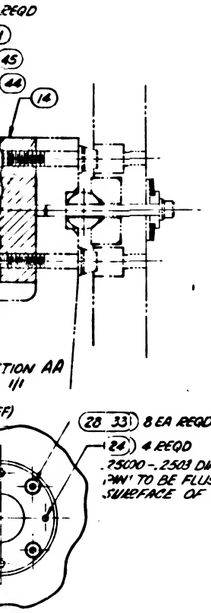
INSULATING BLOCK, UPPER
CURRENT SOURCE MONITOR
(INSEPARABLE ASSEMBLY)

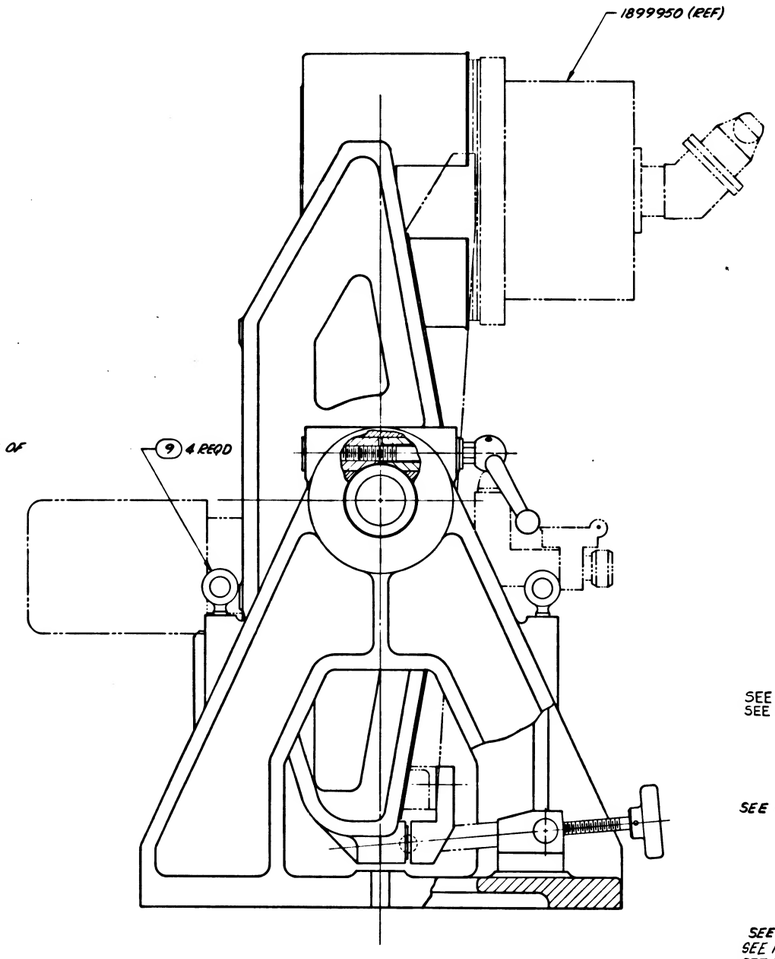
CODE IDENT NO	SIZE	
	D	1902296
SCALE FULL		SHEET 1 OF 1

NEXT ASSY	USED ON
1902289	
APPLICATION	

1902296 B 2

REVISIONS					17816
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APP'D
B		UPGRADED TO CLASS A PER TDRR 17846		9 NOV -65	DAS





			AR		70	MIL-S-22473 GRADE A	SEALING AND RETAINING COMPOUND (ES 2544)	
SEE NOTE 6			1		69	1010400-5	CLAMP, LOOP, HINGED	
SEE NOTE 6			16		68	1006783-45	SCREW, BUTTON HD, HEX SOC	
			4		67	1902402	SPACER, STEPPED	
			1		66	1902399	PLATE, MOUNTING (INSEP ASSY)	
			1		65	1902404-011	JUNCTION BOX ASSY, TRACKER	
			4		64	MS 35338-82	WASHER, LOCK	
			4		63	AN960C416	(1897006-042) WASHER, FLAT	
SEE NOTE 6			4		62	1006783-51	SCREW, BUTTON HD, HEX SOC	
			2		61	1006783-26	SCREW, BUTTON HD, HEX SOC	
			1		60	AN960C4L	(1897006-038) WASHER, FLAT	
			1		59	MS 35338-78	WASHER, LOCK	
			1		58	MS16995-9	SCREW, CAP, SOCKET HD	
			2		57	MS16995-26	SCREW, CAP, SOCKET HD	
			3		56	AN960 C8	(1897006-028) WASHER, FLAT	
			3		55	MS 35338-80	WASHER, LOCK	
			1		54	1901364-011	COUPLING ASSY	
SEE NOTE 6			1		53	1001400-4	CLAMP, LOOP, HINGED	
SEE NOTE 5&6			8		52	1015917-001	T-BOLTS	
SEE NOTE 6			4		51	1006783-9	SCREW, BUTTON HD, HEX SOC	
			1		50	1901304-243	NAMEPLATE	
			AR		49	MIL-L-6085A	OIL, LUBRICATING (ES-89)	
			AR		48	MIL-G-3278A	GREASE, LUBRICATING (ES-134)	
			1		47	MS 171536	PIN-SPRING	
			2		46	1900725-001	HANDLE, SHAFT LOCK	
			3		45	1900963	BALL, PRECISION	
			3		44	1900972	INSERT, OPTICS MOUNTING	
			3		43	1900962	COLLAR, CENTERING	
			6		42	1899979	WASHER, SPRING, BELLEVILLE	
			1		41	1900968	INSERT, BALL MOUNT, STATIONARY	
			011	EFFEC TIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	
QUANTITY REQUIRED						LIST OF PARTS AND MATERIALS		

			1		40	1900970-011	INSERT ASSY, BALL MOUNT, LINE	
			1		39	1900969-011	INSERT ASSY, BALL MOUNT, PLANE	
			2		38	AN960C816	(1897006-082) WASHER-FLAT	
			6		37	AN526C1032R8	(1897083-258) SCREW-TRUSS HD	
			2		36	MS16998-62		
			3		35	MS16998-50		
			6		34	MS16995-67		
			14		33	MS16995-66		
			6		32	MS16995-11	SCREW, CAP, SOCKET HD	
			2		31	AN363C524	(1896990-051) NUT-HEX	
			2		30	NAS 70V328-563	WASHER, FIBRE	
			4		29	AN960C516	(1897006-052) WASHER-FLAT	
			21		28	MS 35338-83	WASHER, LOCK	
			18		27	AN960C10	(1897006-017) WASHER-FLAT	
			2		26	MS 171537	PIN, SPRING	
			2		25	MS16995-37	SCREW, CAP, SOCKET HD	
SEE NOTE 6			12		24	10160093-001	PIN, STEP	
			1		23	1901606-001	SPRING, MP	
			1		22	1900632	KNOB	
			1		21	1900590	GUARD, BELLOWS, INSEP ASSY	
			1		20	1900589	SCREW, DIFFERENTIAL	
			1		19	1900588	SEAT, SPRING	
			1		18	1900587	PIVOT, ANCHOR	
			1		17	1900586	PIVOT, MOVING	
			1		16	1900585	BLOCK, MOVING	
			1		15	1900584	BLOCK, ANCHOR	
			2		14	1900583	SPACER, BALL MOUNT	
			2		13	1900582	PAD, UPPER	
			1		12	1900581	PAD, LOWER	
			1		11	1900580	MOUNT, BALL, LOWER	
			2		10	1900579	WASHER, THRUST	
SEE NOTE 6			4		9	1015916-002	BOLT, EYE, WELDLESS	
			1		8	1900577-002	STUD, SHAFT LOCK	
			1		7	1900577-001	STUD, SHAFT LOCK	
			2		6	1900576	BUSHING, CLAMP	
			1		5	1900575-002	BUSHING, CLAMP, LH THD	
			1		4	1900575-001	BUSHING, CLAMP, RH THD	
			2		3	1900574	SLEEVE, TRUNNION	
			1		2	1900573	CRADLE, FIXTURE, INSEP ASSY	
			1		1	1902403	YOKE, FIXTURE	
			011	EFFEC TIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	
QUANTITY REQUIRED						LIST OF PARTS AND MATERIALS		

1900030	1900030	-011	
NEXT ASSY	USED ON	APPLICABLE DASH NO	
APPLICATION			

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-479

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Schmidt 21 JAN 65 DATE
CHECKED [illegible] 17 MAR 65
ENGR APPROVAL [illegible] 17 MAR 65
MFG APPROVAL [illegible]
NASA APPROVAL [illegible]
QUAL APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

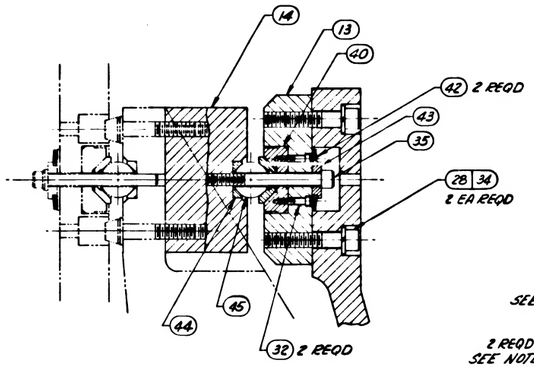
OPTICS, NAVIGATION BASE MOUNTING FIXTURE

CODE IDENT NO J3 | SIZE | 1902301
SCALE 1/2 | SHEET 1 OF 1

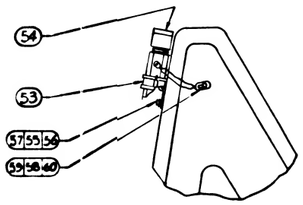
1902301 | REV B | SH 1

1902301

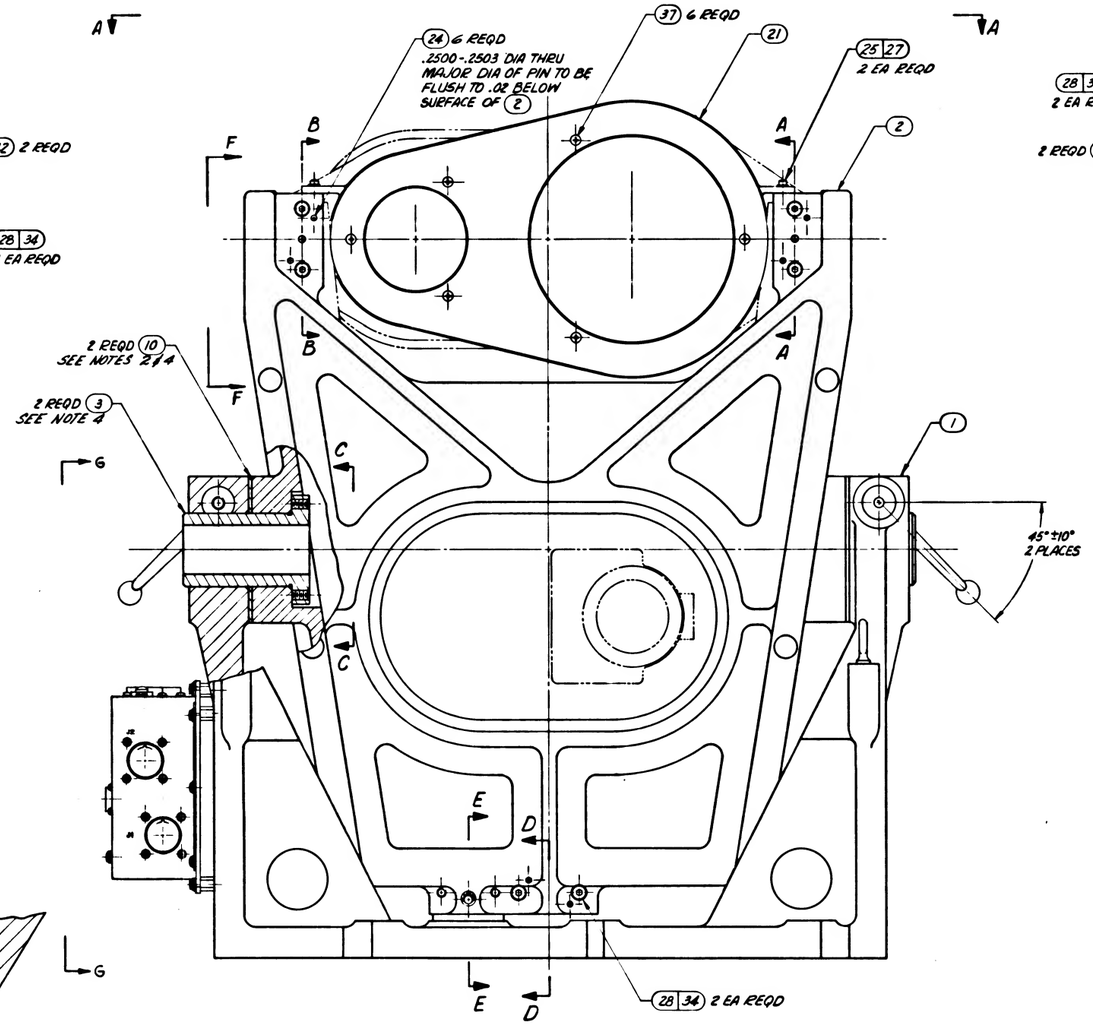
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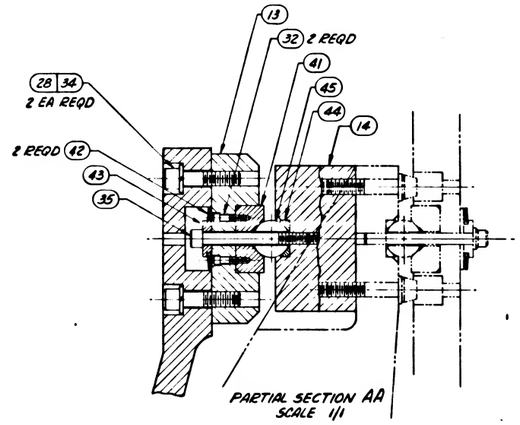


PARTIAL SECTION BB
SCALE 1/1

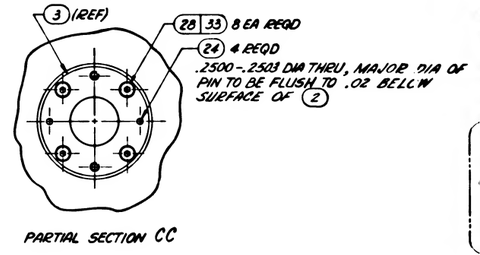


PARTIAL VIEW 'FF'
SCALE 1:2

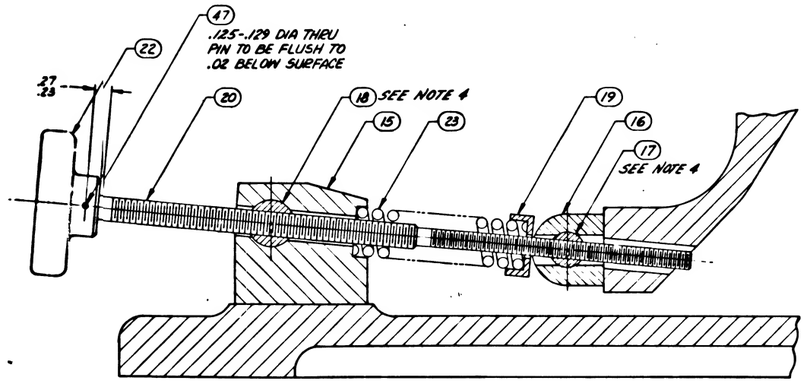




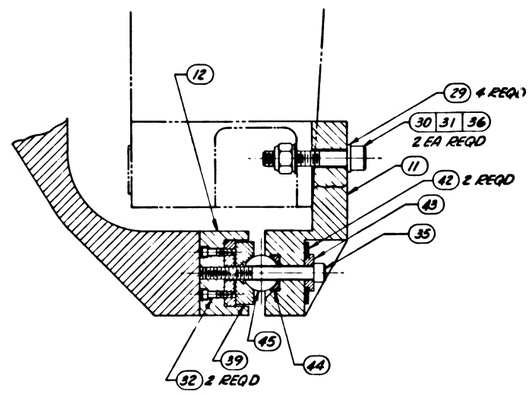
PARTIAL SECTION AA
SCALE 1/1



PARTIAL SECTION CC



PARTIAL SECTION EE
SCALE 1/1



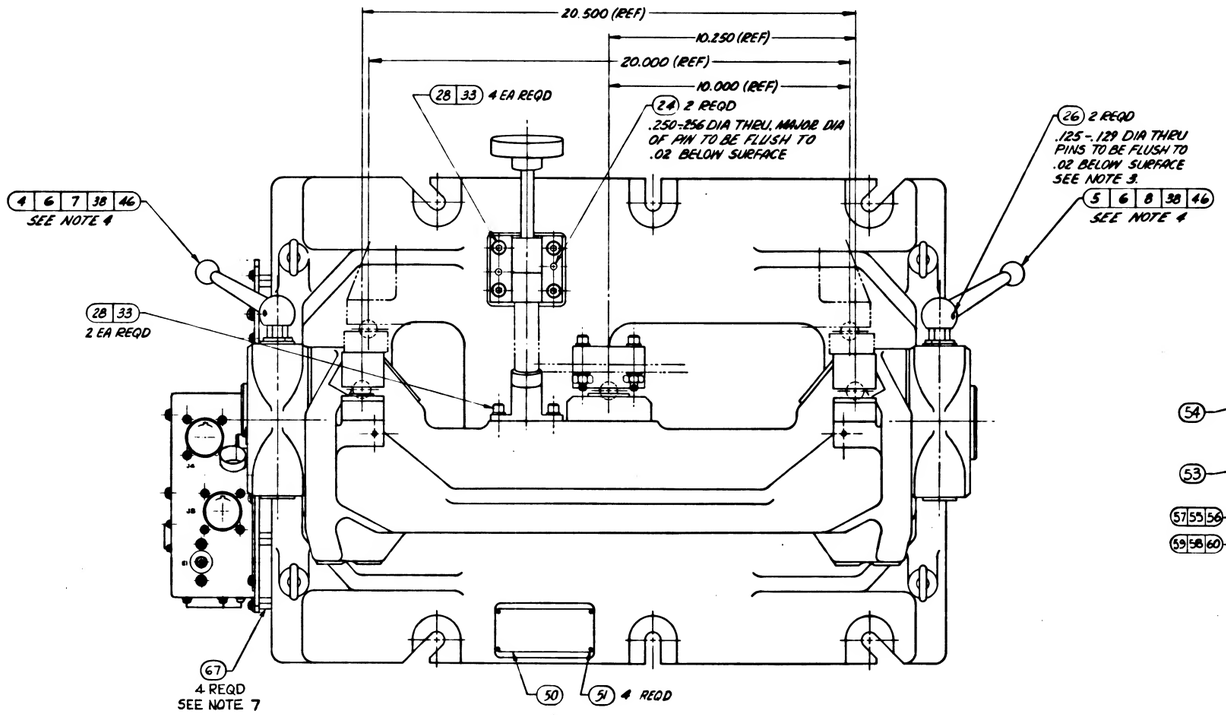
PARTIAL SECTION DD
SCALE 1/1

1902301 SHT 9 SH 1

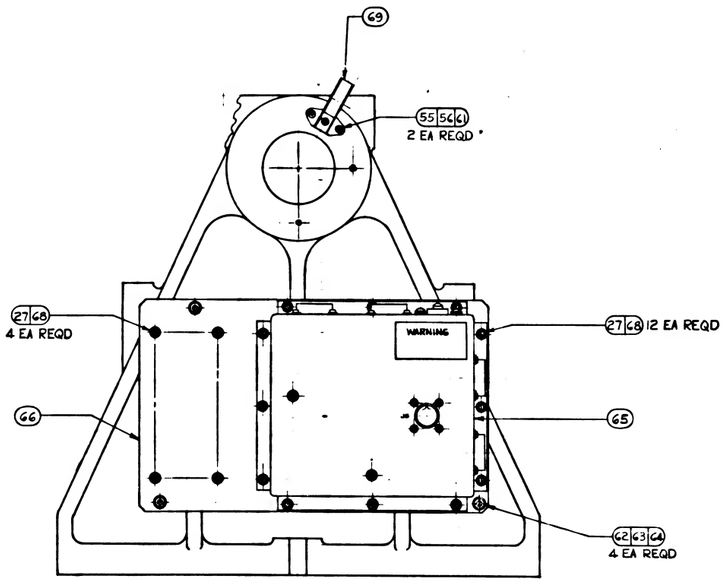
25-1902301

NOTES:

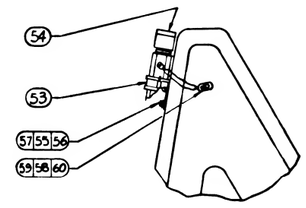
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MACHINE (10) TO ALLOW .005 MAX END PLAY; SURFACE ROUGHNESS NOT TO EXCEED 32 AND SURFACES TO BE PARALLEL WITHIN .001.
3. PIN (46) TO (7) AND (47) TO (8) AS INDICATED WHILE FIXTURE IS IN LOCKED POSITION.
4. LUBRICATION:
   A. APPLY THIN COAT OF (48) TO ALL SCREW THREADS AND (17) & (18)
   B. APPLY THIN FILM OF (49) TO BEARING SURFACES OF (3), (4), (5), (6) AND (10).
5. THE CONFIGURATION OF ITEM (52) IS NOT SHOWN.
6. VENDOR ITEM, SEE SPECIFICATION CONTROL DRAWING.
7. APPLY ITEM (70) TO THE EXTERNAL THREADS OF ITEM (67) PER ND1002211.



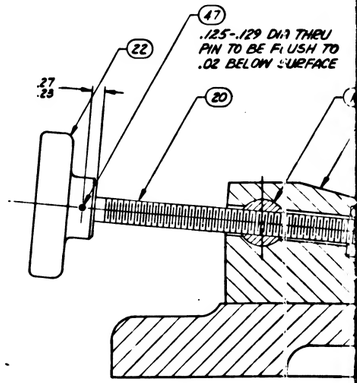
VIEW AA
(21) NOT SHOWN



PARTIAL VIEW GG



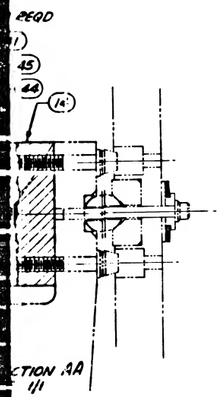
PARTIAL VIEW 'FF'
SCALE 1:2

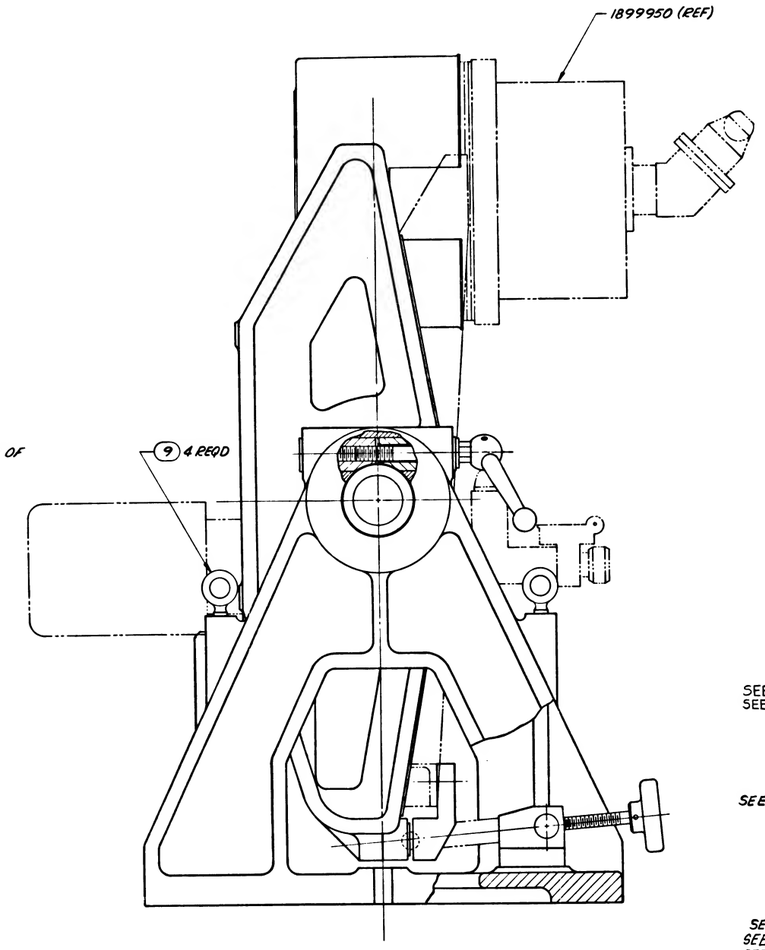


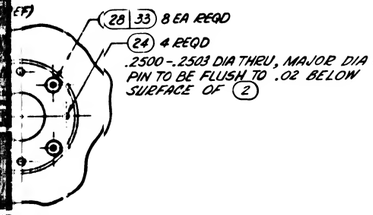
1902301 REV B SH 1

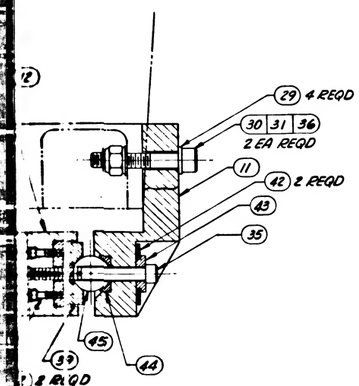
1F/1902301

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
(A)	B	UPGRADED TO CLASS A PER TDRR 17816		3 JAN 65	DAS
	C	REVISED PER TDRR 20073		18 JAN 65	DAS









QUANTITY REQUIRED	EFFEC-TIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	
AR		70	MIL-S-22473 GRADE A	SEALING AND RETAINING COMPOUND (ES2544-1)	
1		69	1010400-7	CLAMP, LOOP, HINGED	SEE NOTE 6
16		68	1006783-45	SCREW, BUTTON HD, HEX SOC	SEE NOTE 6
4		67	1902402	SPACER, STEPPED	
1		66	1902399	PLATE, MOUNTING (INSEP ASSY)	
1		65	1902404-011	JUNCTION BOX ASSY, TRACKER	
4		64	MS35338-82	WASHER, LOCK	
4		63	AN960C416	(1897006-042) WASHER, FLAT	
4		62	1006783-51	SCREW, BUTTON HD, HEX SOC	SEE NOTE 6
2		61	1006783-26	SCREW, BUTTON HD, HEX SOC	SEE NOTE 6
1		60	AN960C4L	(1897006-038) WASHER, FLAT	
1		59	MS35338-78	WASHER, LOCK	
1		58	MS16995-9	SCREW, CAP, SOCKET HD	
2		57	MS16995-26	SCREW, CAP, SOCKET HD	
3		56	AN960C8	(1897006-028) WASHER, FLAT	
3		55	MS35338-80	WASHER, LOCK	
1		54	1901364-011	COUPLING ASSY	
1		53	1010400-4	CLAMP, LOOP, HINGED	SEE NOTE 6
8		52	1015917-001	T-BOLTS	SEE NOTE 5 & 6
4		51	1006783-9	SCREW, BUTTON HD, HEX SOC	SEE NOTE 6
1		50	1901304-243	NAMEPLATE	
AR		49	MIL-L-6085A	OIL, LUBRICATING (ES-89)	
AR		48	MIL-G-3278A	GREASE, LUBRICATING (ES-134)	
1		47	MS171536	PIN-SPRING	
2		46	1900725-001	HANDLE, SHAFT LOCK	
3		45	1900963	BALL, PRECISION	
3		44	1900972	INSERT, OPTICS MOUNTING	
3		43	1900962	COLLAR, CENTERING	
6		42	1899979	WASHER, SPRING, BELLEVILLE	
1		41	1900968	INSERT, BALL MOUNT, STATIONARY	
1		40	1900970-011	INSERT ASSY, BALL MOUNT, LINE	
1		39	1900969-011	INSERT ASSY, BALL MOUNT, PLANE	
2		38	AN960C816	(1897006-082) WASHER-FLAT	
6		37	AN526C1032R8	(1897083-258) SCREW-TRUSS HD	
2		36	MS16999-62		
3		35	MS16998-50		
6		34	MS16995-67		
14		33	MS16995-66		
6		32	MS16995-11	SCREW, CAP, SOCKET HD	
2		31	AN363C524	(1896990-051) NUT-HEX	
2		30	NAS70V328-563	WASHER, FIBRE	
4		29	AN960C516	(1897006-052) WASHER-FLAT	
21		28	MS35338-83	WASHER, LOCK	
18		27	AN960C10	(1897006-017) WASHER-FLAT	
2		26	MS171537	PIN, SPRING	
2		25	MS16995-37	SCREW, CAP, SOCKET HD	
12		24	1016093-001	PIN, STEP	SEE NOTE 6
1		23	1901606-001	SPRING, MP	
1		22	1900632	KNOB	
1		21	1900590	GUARD, BELLOWS, INSEP ASSY	
1		20	1900589	SCREW, DIFFERENTIAL	
1		19	1900588	SEAT, SPRING	
1		18	1900587	PIVOT, ANCHOR	
1		17	1900586	PIVOT, MOVING	
1		16	1900585	BLOCK, MOVING	
1		15	1900584	BLOCK, ANCHOR	
2		14	1900583	SPACER, BALL MOUNT	
2		13	1900582	PAD, UPPER	
1		12	1900581	PAD, LOWER	
1		11	1900580	MOUNT, BALL, LOWER	
2		10	1900579	WASHER, THRUST	
4		9	1015916-002	BOLT, EYE, WELDLESS	SEE NOTE 6
1		8	1900577-002	STUD, SHAFT LOCK	
1		7	1900577-001	STUD, SHAFT LOCK	
2		6	1900576	BUSHING, CLAMP	
1		5	1900575-002	BUSHING, CLAMP, LH THD	
1		4	1900575-001	BUSHING, CLAMP, RH THD	
2		3	1900574	SLEEVE, TRUNNION	
1		2	1900573	CRADLE, FIXTURE, INSEP ASSY	
1		1	1902403	YOKE, FIXTURE	

LIST OF PARTS AND MATERIALS

1900030	1900030	-011	
NEXT ASSY	USED ON	APPLICABLE DASH NO.	
APPLICATION			

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-479

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. Schwanke 21 JAN 65
CHECKED [illegible] 21 JAN 65
ENGINEER [illegible] 21 JAN 65
APPROVED [illegible] 21 JAN 65
PROJECT APPROVAL [illegible]

NASA APPROVAL [illegible]

MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS, NAVIGATION BASE MOUNTING FIXTURE

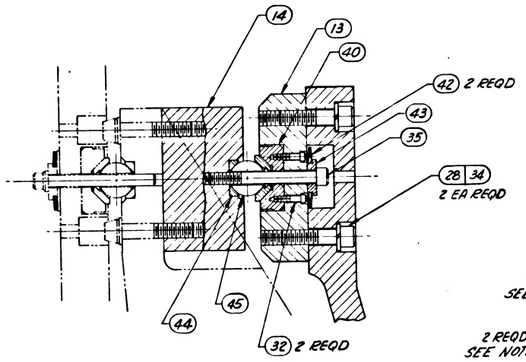
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SCALE 1/2 | SHEET 1 OF 1

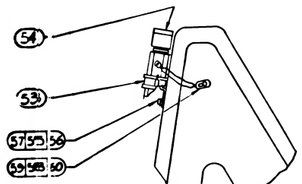
1902301 | SH 1

3441902301

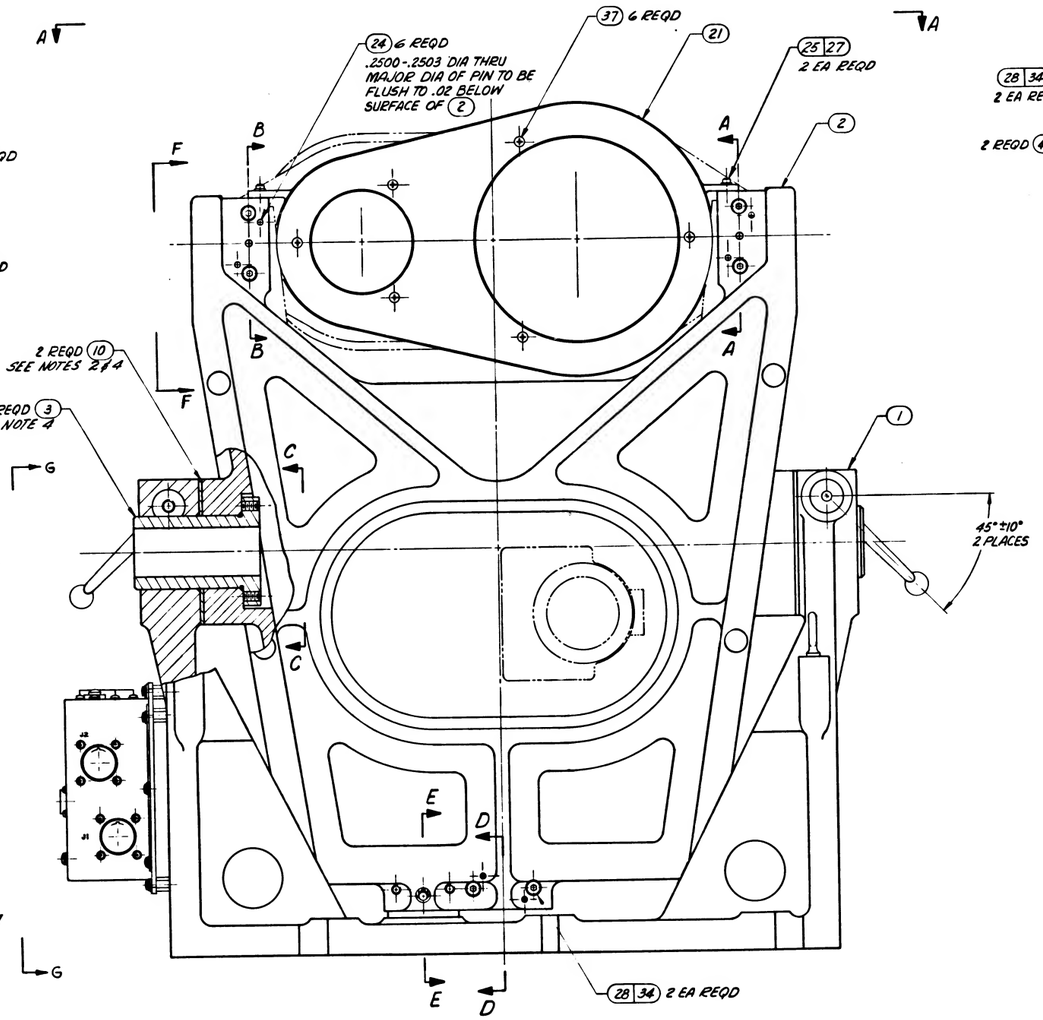
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SH TO
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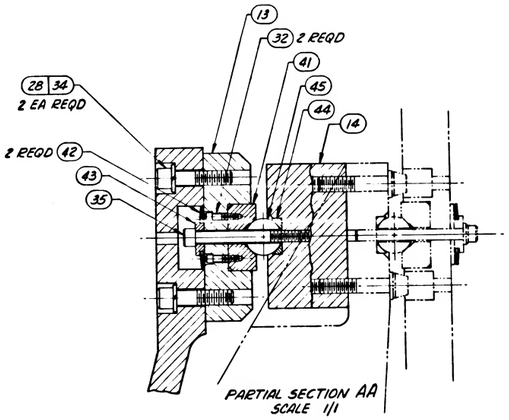


PARTIAL SECTION BB
SCALE 1/1

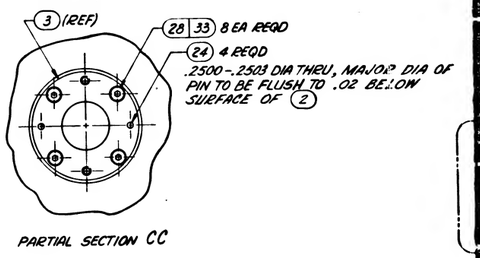


PARTIAL VIEW 'FF'
SCALE 1·2

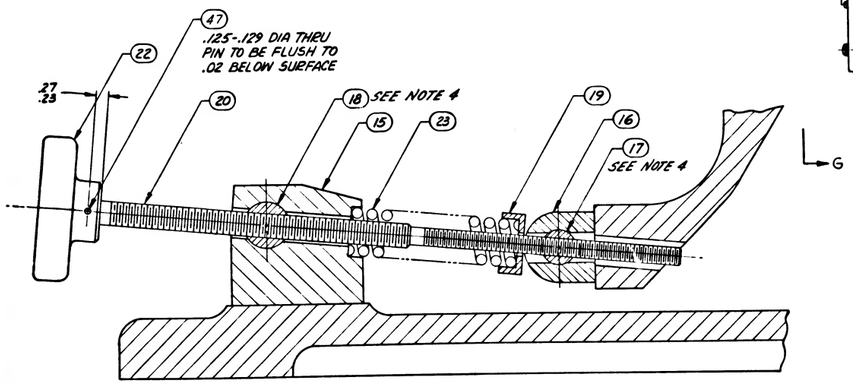




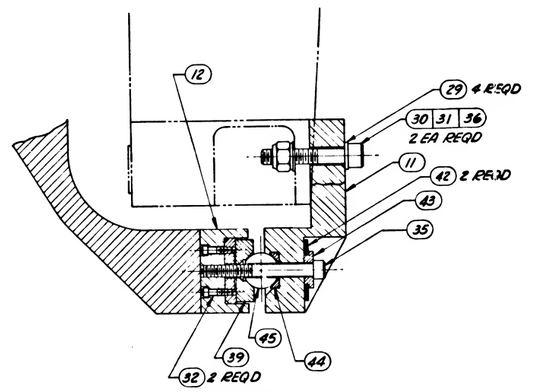
PARTIAL SECTION AA
SCALE 1/1



PARTIAL SECTION CC



PARTIAL SECTION EE
SCALE 1/1

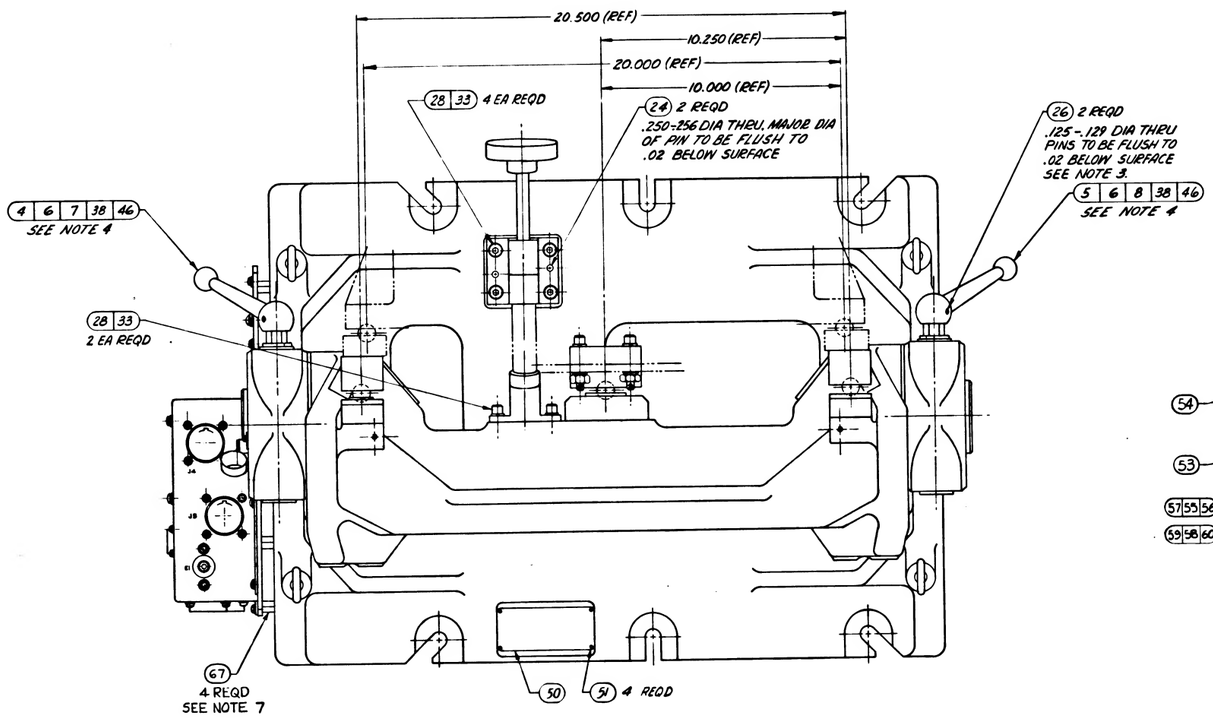


PARTIAL SECTION DD
SCALE 1/1

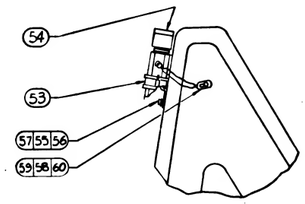
2/1/1902301

NOTES:

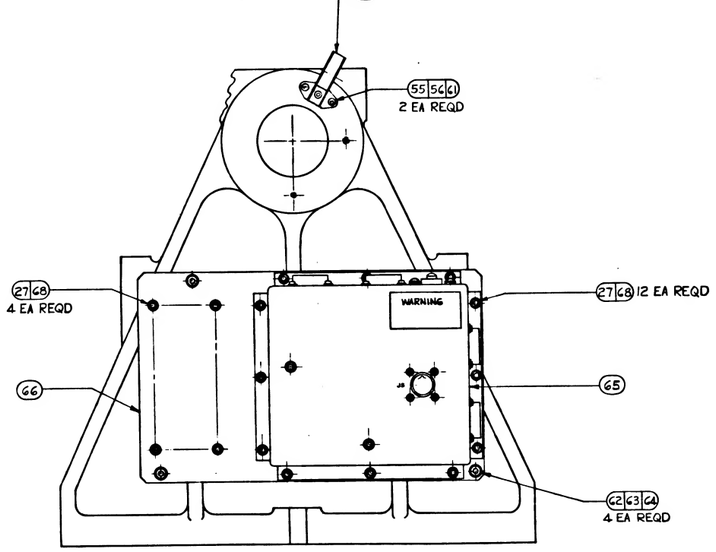
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MACHINE (10) TO ALLOW .005 MAX END PLAY; SURFACE ROUGHNESS NOT TO EXCEED 32 AND SURFACES TO BE PARALLEL WITHIN .001.
3. PIN (46) TO (7) AND (47) TO (8) AS INDICATED WHILE FIXTURE IS IN LOCKED POSITION.
4. LUBRICATION:
   A. APPLY THIN COAT OF (48) TO ALL SCREW THREADS AND (17) & (18)
   B. APPLY THIN FILM OF (49) TO BEARING SURFACES OF (3), (4), (5), (6) AND (10).
5. THE CONFIGURATION OF ITEM (52) IS NOT SHOWN.
6. VENDOR ITEM, SEE SPECIFICATION CONTROL DRAWING.
7. APPLY ITEM (70) TO THE EXTERNAL THREADS OF ITEM (67) PER ND1002211.



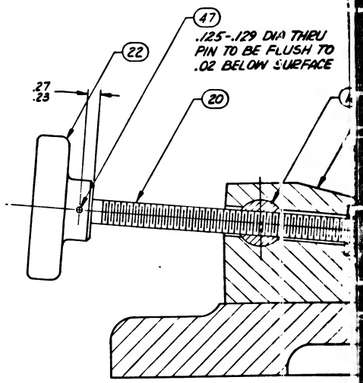
VIEW AA
(21) NOT SHOWN



PARTIAL VIEW "FF"
SCALE 1:2



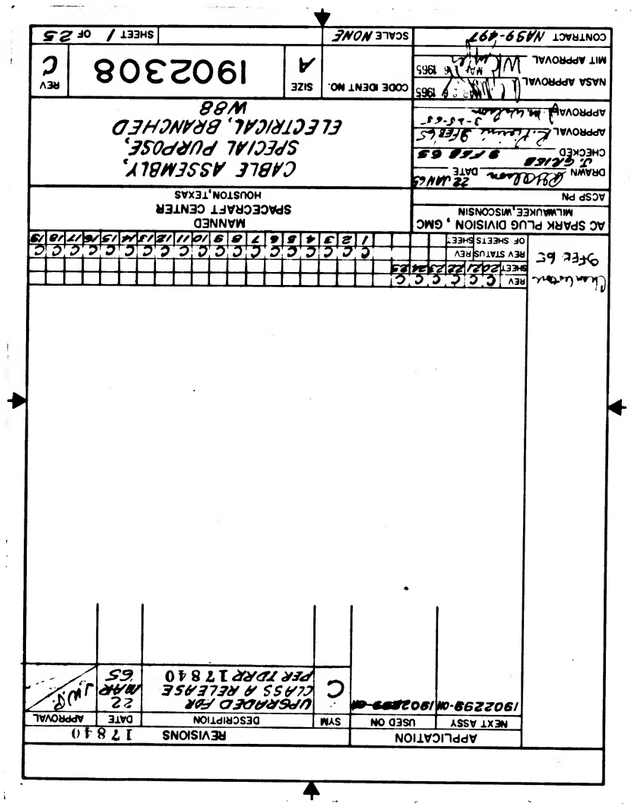
PARTIAL VIEW GG



1902301 C SH 1

MIL FORM 1050 J3

1/1902301


CONTRACT NAS9-497
SCALE NONE
SHEET 1 OF 25
CODE IDENT NO.
SIZE A
1902308
REV C
CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED W88
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 22 MAR 65
CHECKED 9 FEB 65
APPROVAL 3-15-65
NASA APPROVAL 16 1965
MIT APPROVAL
APPLICATION
NEXT ASSY 1902299-0M 1902299-0M
USED ON
REVISIONS 17840
SYM C
DESCRIPTION UPGRADED FOR CLASS A RELEASE PER TDRR 17840
DATE 22 MAR 65
APPROVAL
REV STATUS REV
OF SHEETS SHEET
REV
SHEET 22 23 24 25
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206.
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEAD PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
9	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
10	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR WHITE PER ND1002019. MARKING TO READ AWAY FROM ATTACHED ACCESSORY.
11	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267) .12 INCH HIGH CHARACTERS, COLOR WHITE.
12	SERIALIZE PER ND1002023.
13	FASTEN MARKER SECURELY WITH ITEM 38. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. CENTRALIZE.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS, COLOR WHITE. HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.
15	FASTEN MARKER SECURELY WITH ITEM 38. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTOR
16	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SEAL ZIPPER TUBING PER ND1002153.
20	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD L - WHITE WITH LETTER L OR WHITE WITH BLUE TRACER. R - WHITE WITH LETTER R OR WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER
21	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
22	SPOT TIE AS SHOWN USING ITEM 38.
23	ITEM 16 FURNISHED WITH ITEMS 7 AND 8.
24	ITEM 15 FURNISHED WITH ITEM 9.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902308-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT 22AWG, 1400 FEET TOTAL LENGTH.
	2	1	1902308-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT 20AWG, 0030 FEET TOTAL LENGTH.
	3		1902308-003	WIRE ND1002181, TYPE 2, CLASS 4, WHT JKT 22AWG WHT/BLU, WHT/RED, 314 FT. TOTAL LENGTH
	4		1902308-004	WIRE ND1002181, TYPE 2, CLASS 4, WHT JKT 20AWG WHT/BLU, WHT/RED, 68 FT. TOTAL LENGTH
	5		1902308-005	WIRE ND1002181, TYPE 1, CLASS 4, WHT JKT 22AWG WHT, 129 FT. TOTAL LENGTH
	6		1902308-006	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT 20AWG WHT/BLU, WHT/RED, WHT/YEL, 23 FT. TOTAL LENGTH
	7	1	MS3126F22-55P	(1897045-550) CONNECTOR-PLUG, ELECTRICAL CRIMP TYPE PIN
	8	1	MS3126F22-55PX	(1897045-552) CONNECTOR-PLUG, ELECTRICAL CRIMP TYPE PIN
	9	1	MS3126F22-55SW	(1897046-551) CONNECTOR-PLUG, ELECTRICAL CRIMP TYPE SOCKET
17	10	1	1897173- 3	CONNECTOR, RECEPTACLE, ELECTRICAL
17	11	1	1897171- 3	CONNECTOR, RECEPTACLE, ELECTRICAL
17	12	1	1897171- 5	CONNECTOR, RECEPTACLE, ELECTRICAL
17	13	1	1016369-341	CONNECTOR-ELECTRICAL-PLUG AND RECEPTACLE
17	14	3	1015902- 46	TERMINAL-LUG, CRIMP STYLE

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
17	33	1	1010490-226	INSULATION-SLEEVING, ELECTRICAL
17	34	5	1010490-228	INSULATION-SLEEVING, ELECTRICAL
17	35	20	1010490-194	INSULATION-SLEEVING, ELECTRICAL
17	36	5	1010490-196	INSULATION-SLEEVING, ELECTRICAL
17	37	31	1010490-198	INSULATION-SLEEVING, ELECTRICAL
18	38	AR	1012507-004	TAPE, LACING AND TYING
	39	AR	1902308-007	ZIPPER TUBING-ND10C2155, TYPE 1, .50 IN. INSIDE DIA. 13 FT. 2 IN. TOTAL LENGTH
	40	AR	1902308-008	ZIPPER TUBING-ND1002155, TYPE 1, .75 IN. INSIDE DIA. 5 FT 10 IN. TOTAL LENGTH
	41	AR	1902308-009	ZIPPER TUBING-ND1002155, TYPE 1, 2.00 IN. INSIDE DIA. 19 FT. TOTAL LENGTH
	42	3	~~1016197-006~~ 1902308-010	~~TUBING, SHRINKFIT, FLEXIBLE 6 IN. TOTAL LENGTH~~ TUBING, 1016197-006, SHRINKFIT, FLEXIBLE-6 IN. TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C | SHEET 7 OF 25

MIL 2084 4-83

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	18	MS3193A-20A	(1896877-020) CONTACT-ELECTRICAL, SOCKET, CRIMP
	16	72	MS3192A-20A	(1896855-020) CONTACT-ELECTRICAL, PIN, CRIMP
17	17	123	1010738- 6	CONTACT, CRIMP TYPE, SOCKET
17	18	20	1016369-421	CONNECTOR-ELECTRICAL-CONTACT FEMALE
17	19	7	1016128-041	BAND-IDENTIFICATION BLANK
17	20	1	1016128-011	BAND-IDENTIFICATION BLANK
17	21	15	1000243- 10	FERRULE, ELECTRICAL CONDUCTOR
17	22	15	1000242- 11	FERRULE, ELECTRICAL CONDUCTOR
17	23	4	1000243- 14	FERRULE, ELECTRICAL CONDUCTOR
17	24	4	1000242- 12	FERRULE, ELECTRICAL CONDUCTOR
17	25	8	1000243- 4	FERRULE, ELECTRICAL CONDUCTOR
17	26	8	1000242- 4	FERRULE, ELECTRICAL CONDUCTOR
17	27	1	1000243- 16	FERRULE, ELECTRICAL CONDUCTOR
17	28	1	1000242- 18	FERRULE, ELECTRICAL CONDUCTOR
17	29	5	1016006-001	SPLICE-REDUCER, CRIMP STYLE
17	30	1	1016006-002	SPLICE-REDUCER, CRIMP STYLE
17	31	4	1016006-003	SPLICE-REDUCER, CRIMP STYLE
17	32	4	1010490-224	INSULATION-SLEEVING, ELECTRICAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C | SHEET 6 OF 25

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	3			2.30 2.30	2.00 2.00				4	A 35, 21, 22 A 37	
A	1A	1	SHLD A1 E4					.37 .37	NO NO			
A	1L		P1-B* P4-2					.22 .10	NO NO		16 17	
A	1R		P1-A* P4-1					.22 .10	NO NO		16 17	
A	2	3			2.30 2.30	2.00 2.00				4	A 35, 21, 22 A 37	
A	2A	1	SHLD A2 E4					.37 .37	NO NO			
A	2L		P1-D* P4-15					.22 .10	NO NO		16 17	
A	2R		P1-C* P4-14					.22 .10	NO NO		16 17	
A	3	3			2.30 2.30	2.00 2.00				4	A 35, 21, 22 A 37	
A	3A	1	SHLD A3 E4					.37 .37	NO NO			
A	3L		P1-F* P4-28					.22 .10	NO NO		16 17	
A	3R		P1-E* P4-29					.22 .10	NO NO		16 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C | SHEET 8 OF 25

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4	1	P1-I* P4-9					.22 .10	NO NO		16 17	
A	5	1	P1-J* P4-25					.22 .10	NO NO		16 17	
A	6	1	P1-J P4-68					.22 .10	NO NO		16 17	
A	7	1	P1-N* P4-69					.22 .10	NO NO		16 17	
A	8	1	P1-P* P4-81					.22 .10	NO NO		16 17	
A	9	1	P1-Q* P4-46					.22 .10	NO NO		16 17	
A	10	1	P1-R* P4-12					.22 .10	NO NO		16 17	
A	11	1	P1-S* P4-18					.22 .10	NO NO		16 17	
A	12	1	P1-T* P4-6					.22 .10	NO NO		16 17	
A	13	1	P1-U* P4-34					.22 .10	NO NO		16 17	
A	14	1	P1-V* P4-93					.22 .10	NO NO		16 17	
A	15	1	P1-K P4-78					.22 .10	NO NO		16 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C | SHEET 9 OF 25

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16	1		P1-Y* P4-56					.22 .10	NO NO		16 17	
A 17	1		P1-AA P4-35					.22 .10	NO NO		16 17	
A 18	1		P1-BB P4-36					.22 .10	NO NO		16 17	
A 19	1		P1-DD P4-37					.22 .10	NO NO		16 17	
A 20	1		P1-EE P4-23					.22 .10	NO NO		16 17	
A 21	1		P1-HH P4-24					.22 .10	NO NO		16 17	
A 22	3				2.30 2.30	2.00 2.00				A 37 4 A 35, 21, 22		
A 22B	1		E2 SHLD A22					.37 .37	NO NO			
A 22L			P1-H* P4-107					.22 .10	NO NO		16 17	
A 22R			P1-G* P4-108					.22 .10	NO NO		16 17	
A 23	3				2.80 2.80	2.50 2.50				A 37 4 A 35, 21, 22		
A 23B	1		E1 SHLD A23					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE - NONE	REV LTR C X	SHEET 10 OF 25

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23L			P1-U P6-68					.22 .10	NO NO		16 17	
A 23R			P1-V P6-69					.22 .10	NO NO		16 17	
A 24	5				2.80 2.80	2.50 2.50				A 37 4 A 37, 25, 26		
A 24B	1		E1 SHLD A24					.37 .37	NO NO			
A 24W			P1-A P6-38					.22 .10	NO NO		16 17	
A 25	5				2.80 2.80	2.50 2.50				A 37 4 A 37, 25, 26		
A 25B	1		E1 SHLD A25					.37 .37	NO NO			
A 25W			P1-E P6-39					.22 .10	NO NO		16 17	
A 26	3				2.80 2.80	2.50 2.50				A 37 4 A 35, 21, 22		
A 26B	1		E1 SHLD A26					.37 .37	NO NO			
A 26L			P1-D P6-49					.22 .10	NO NO		16 17	
A 26R			P1-C P6-48					.22 .10	NO NO		16 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE - NONE	REV LTR C X	SHEET 11 OF 25

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 27	1		P1-F P6-12					.22 .10	NO NO		16 17	
A 28	1		P1-G P6-13					.22 .10	NO NO		16 17	
A 29	1		P1-W P6-9					.22 .10	NO NO		16 17	
A 30	1		P1-X P6-8					.22 .10	NO NO		16 17	
A 31	1		P1-Y P6-104					.22 .10	NO NO		16 17	
A 32	1		P1-B E4					.22 .37	NO NO		16 17	
A 33	4				3.30 3.30	3.00 3.00				A 36 4 A 35, 23, 24		
A 33B	1		E1 SHLD A33					.37 .37	NO NO			
A 33L			P1-N E9					.22 .37	NO NO		16	
A 33R			P1-L E8					.22 .37	NO NO		16	
A 34	6				3.30 3.30	3.00 3.00				A 36 4 A 35, 27, 28		
A 34B	1		E1 SHLD A34					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE - NONE	REV LTR C X	SHEET 12 OF 25

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34L			P1-P E9					.22 .37	NO NO		16	
A 34R			P1-M E9					.22 .37	NO NO		16	
A 34Y			P1-R E9					.22 .37	NO NO		16	
A 35	3				2.30 2.30	2.00 2.00				4 A 35, 21, 22 A 37		
A 35A	1		SHLD A34 E5					.37 .37	NO NO			
A 35L			P2-R P5-2					.22 .10	NO NO		16 17	
A 35R			P2-P P5-1					.22 .10	NO NO		16 17	
A 36	3				2.30 2.30	2.00 2.00				4 A 35, 21, 22 A 37		
A 36A	1		SHLD A35 E5					.37 .37	NO NO			
A 36L			P2-T P5-15					.22 .10	NO NO		16 17	
A 36R			P2-S P5-14					.22 .10	NO NO		16 17	
A 37	1		P2-U P5-9					.22 .10	NO NO		16 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE - NONE	REV LTR C X	SHEET 13 OF 25

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 38	1		P2-V P5-25					.22 .10	NO NO		16 17	
A 39	1		P2-X P5-88					.22 .10	NO NO		16 17	
A 40	1		P2-Y P5-46					.22 .10	NO NO		16 17	
A 41	1		P2-Z P5-18					.22 .10	NO NO		16 17	
A 42	1		P2-A* P5-13					.22 .10	NO NO		16 17	
A 43	1		P2-B* P5-6					.22 .10	NO NO		16 17	
A 44	1		P2-C* P5-34					.22 .10	NO NO		16 17	
A 45	1		P2-D* P5-49					.22 .10	NO NO		16 17	
A 46	1		P2-G* P5-56					.22 .10	NO NO		16 17	
A 47	1		P2-I* P5-35					.22 .10	NO NO		16 17	
A 48	1		P2-J* P5-36					.22 .10	NO NO		16 17	
A 49	1		P2-M* P5-37					.22 .10	NO NO		16 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 14 OF 25

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 50	1		P2-N* P5-23					.22 .10	NO NO		16 17	
A 51	1		P2-R* P5-24					.22 .10	NO NO		16 17	
A 52	1		P2-U* P5-58					.22 .10	NO NO		16 17	
A 53	1		P2-X* P5-39					.22 .10	NO NO		16 17	
A 54	1		P2-Y* P5-48					.22 .10	NO NO		16 17	
A 55	1		P2-Z* P5-38					.22 .10	NO NO		16 17	
A 56	1		P2-AA P5-59					.22 .10	NO NO		16 17	
A 57	1		P2-DD P5-69					.22 .10	NO NO		16 17	
A 58	1		P2-EE P5-5					.22 .10	NO NO		16 17	
A 59	5			3.30 3.30	3.00 3.00					4	A 37 A 37, 25, 26	
A 59B			E1 SHLD A59					.37 .37	NO NO			
A 59W			P2-T* E7					.22 .37	NO NO		16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 15 OF 25

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60	2		P2-B E5					.22 .37	NO NO		16	
A 61	1		P2-FF P5-27					.22 .10	NO NO		16	
A 62	1		P2-GG P5-26					.22 .10	NO NO		16 17	
A 63	1		P3-H* P5-68					.22 .10	NO NO		15 17	
A 64	1		P3-J* P5-93					.22 .10	NO NO		15 17	
A 65	1		P3-N* P5-78					.22 .10	NO NO		15 17	
A 66	1		P3-P* P5-4					.22 .10	NO NO		15 17	
A 67	1		P3-Q* P5-57					.22 .10	NO NO		15 17	
A 68	1		P3-R* P5-12					.22 .10	NO NO		15 17	
A 69	1		P3-S* P5-7					.22 .10	NO NO		15 17	
A 70	3			2.30 2.30	2.00 2.00					4	A 35, 21, 22 A 37	
A 70A	1		SHLD A70 E6					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 16 OF 25

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70L			P3-X* P5-97					.22 .10	NO NO		15 17	
A 70R			P3-W* P5-96					.22 .10	NO NO		15 17	
A 71	3			2.30 2.30	2.00 2.00					4	A 35, 21, 22 A 37	
A 71A	1		SHLD A71 E6					.37 .37	NO NO			
A 71L			P3-CC P5-71					.22 .10	NO NO		15 17	
A 71R			P3-BB P5-70					.22 .10	NO NO		15 17	
A 72	3			2.30 2.30	2.00 2.00					4	A 35, 21, 22 A 37	
A 72A	1		SHLD A72 E6					.37 .37	NO NO			
A 72L			P3-EE P5-83					.22 .10	NO NO		15 17	
A 72R			P3-DD P5-82					.22 .10	NO NO		15 17	
A 73	3			2.30 2.30	2.00 2.00					4	A 35, 21, 22 A 37	
A 73A	1		SHLD A73 E6					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 17 OF 25

MIL 2084 4 83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73L			P3-Y*					.22	NO		15	
			P5-10					.10	NO		17	
A 73R			P3-Z*					.22	NO		15	
			P5-11					.10	NO		17	
A 74	1		P3-FF					.22	NO		15	
			P5-76					.10	NO		17	
A 75	1		P3-GG					.22	NO		15	
			P5-89					.10	NO		17	
A 76	2		P3-B					.22	NO		15	
			E6					.37	NO			
A 77	5				2.30	2.00					A 37	
					2.30	2.00				4	A 37, 25, 26	
A 77B	1		E2									
			SHLD A77					.37	NO			
A 77W			P5-79					.10	NO		17	
			P4-79					.10	NO		17	
A 78	5				2.30	2.00					A 37	
					2.30	2.00				4	A 37, 25, 26	
A 78B	1		E2					.37	NO			
			SHLD A78					.37	NO			
A 78W			P5-104					.10	NO		17	
			P4-104					.10	NO		17	
A 79	5				2.30	2.00					A 37	
					2.30	2.00				4	A 37, 25, 26	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 18 OF 25

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79B	1		E2					.37	NO			
			SHLD A79					.37	NO			
A 79W			P5-92					.10	NO		17	
			P4-92					.10	NO		17	
A 80	5				3.80	3.50					A 37	
					3.80	3.50				4	A 37, 25, 26	
A 80B	1		E2					.37	NO			
			SHLD A80					.37	NO			
A 80W			P5-105					.10	NO		17	
			P4-105					.10	NO		17	
A 81	5				3.80	3.50					A 37	
					3.80	3.50				4	A 37, 25, 26	
A 81B	1		E2					.37	NO			
			SHLD A81					.37	NO			
A 81W			P5-94					.10	NO		17	
			P4-94					.10	NO		17	
A 82	5				3.80	3.50					A 37	
					3.80	3.50				4	A 37, 25, 26	
A 82B	1		E2					.37	NO			
			SHLD A82					.37	NO			
A 82W			P5-22					.10	NO		17	
			P4-22					.10	NO		17	
A 83	3				2.30	2.00					A 37	
					2.30	2.00				4	A 35, 21, 22	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 19 OF 25

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83B	1		E5					.37	NO			
			SHLD A83					.37	NO			
A 83L			P5-28					.10	NO		17	
			P2-N					.22	NO		16	
A 83R			P5-29					.10	NO		17	
			P2-M					.22	NO		16	
A 84	3				2.30	2.00					A 37	
					2.30	2.00				4	A 35, 21, 22	
A 84B	2		E1					.37	NO			
			SHLD A84					.37	NO			
A 84L			P5-106					.10	NO		17	
			E8					.37	NO			
A 84R			P5-90					.10	NO		17	
			E8					.37	NO			
A 85	4				3.30	3.00					A 35, 23, 24	
					2.30	2.00					A 36	
A 85A	1		SHLD A85					.37	NO			
			E1					.37	NO			
A 85L			P10-J					.18	NO		18	
			E10					.37	NO			
A 85R			P10-D					.18	NO		18	
			E7					.37	NO			
A 86	3				2.30	2.00					A 37	
					2.30	2.00				4	A 35, 21, 22	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 20 OF 25

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 86B	2		E6					.37	NO			
			SHLD A86					.37	NO			
A 86L			P1C-F					.18	NO		18	
			P5-80					.10	NO		17	
A 86R			P10-B					.18	NO		18	
			P5-95					.10	NO		17	
A 87	1		P10-Z					.18	NO		18	
			P5-91					.10	NO		17	
A 88	4				3.30	3.00					A 35, 23, 24	
					3.30	3.00				4	A 36	
A 88A	1		SHLD A88					.37	NO			
			E1					.37	NO			
A 88L			P10-A					.18	NO		18	
			E9					.37	NO			
A 88R			P10-C					.18	NO		18	
			E8					.37	NO			
A 89	4				3.30	3.00					A 35, 23, 24	
					3.30	3.00				4	A 36	
A 89A	1		SHLD A89					.37	NO			
			E1					.37	NO			
A 89L			P10-E					.18	NO		18	
			E9					.37	NO			
A 89R			P10-H					.18	NO		18	
			E8					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902308 | SCALE-NONE | REV LTR C X | SHEET 21 OF 25

MIL 2084 4-83

CABLE W88 1902308 C X

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	90	1		P10-Y					.18	NO		18	
				P6-10					.10	NO		17	
A	91	1		P10-KK					.18	NO		18	
				P6-44					.10	NO		17	
A	92	1		P10-LL					.18	NO		18	
				P6-19					.10	NO		17	
A	93	1		P10-MM					.18	NO		18	
				P6-43					.10	NO		17	
A	94	1		P10-NN					.18	NO		18	
				P6-24					.10	NO		17	
A	95	1		P10-T					.18	NO		18	
				P6-16					.10	NO		17	
A	96	1		P10-S					.18	NO		18	
				P6-32					.10	NO		17	
A	97	1		P10-U					.18	NO		18	
				P6-33					.10	NO		17	
A	98	1		P10-W					.18	NO		18	
				P6-14					.10	NO		17	
A	99	1		P10-V					.18	NO		18	
				P6-15					.10	NO		17	
A	100	1		P4-91					.10	NO		17	
				E11					.37	NO		14	
A	101	1		P5-84					.10	NO		17	
				E12					.37	NO		14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE-NONE	REV LTR C X	SHEET 22 OF 25

MIL 2084 4-63

CABLE W88 1902308 C X

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	102	1		P6-1					.10	NO		17	
				E13					.37	NO		14	
A	103	2		E1					.37	NO			
				E3					.37	NO			
A	104	2		E2					.37	NO			
				E3					.37	NO			
A	105	2		E3					.37	NO			
				P10-X					.18	NO		18	
A	106	1		E7					.37	NO			
				P5-108					.10	NO		17	
A	107	1		E8					.37	NO			
				P6-105					.10	NO		17	
A	108	1		E8					.37	NO			
				P6-106					.10	NO		17	
A	109	1		E8					.37	NO			
				P6-107					.10	NO		17	
A	110	1		E8					.37	NO			
				P6-108					.10	NO		17	
A	111	1		E9					.37	NO			
				P6-92					.10	NO		17	
A	112	1		E9					.37	NO			
				P6-93					.10	NO		17	
A	113	1		E9					.37	NO			
				P6-94					.10	NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE-NONE	REV LTR C X	SHEET 23 OF 25

MIL 2084 4-63

CABLE W88 1902308 C X

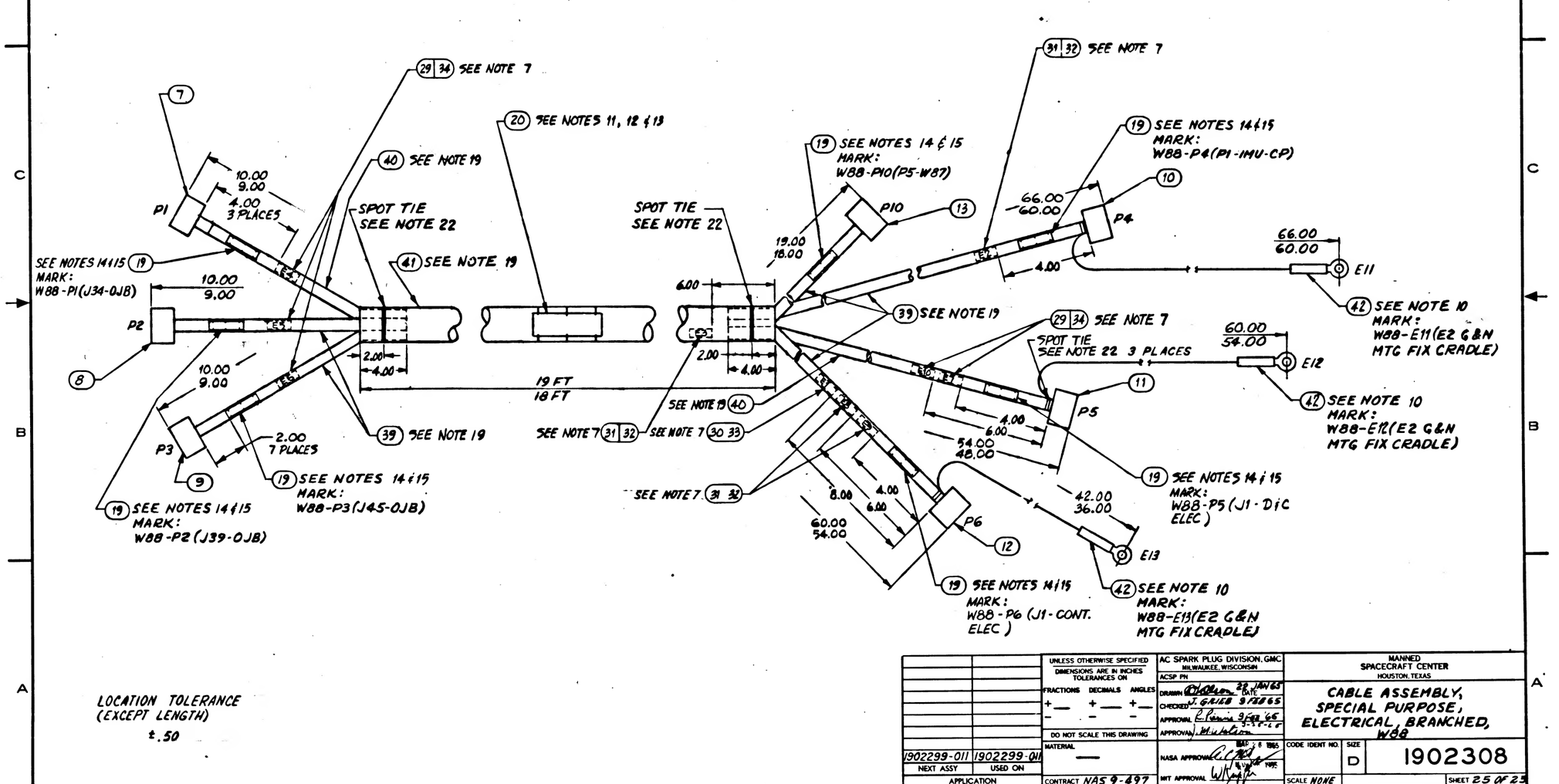
LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	114	1		E9					.37	NO			
				P6-95					.10	NO		17	
A	115	1		E10					.37	NO			
				P5-103					.10	NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902308
SCALE-NONE	REV LTR C X	SHEET 24 OF 25

MIL 2084 4-63

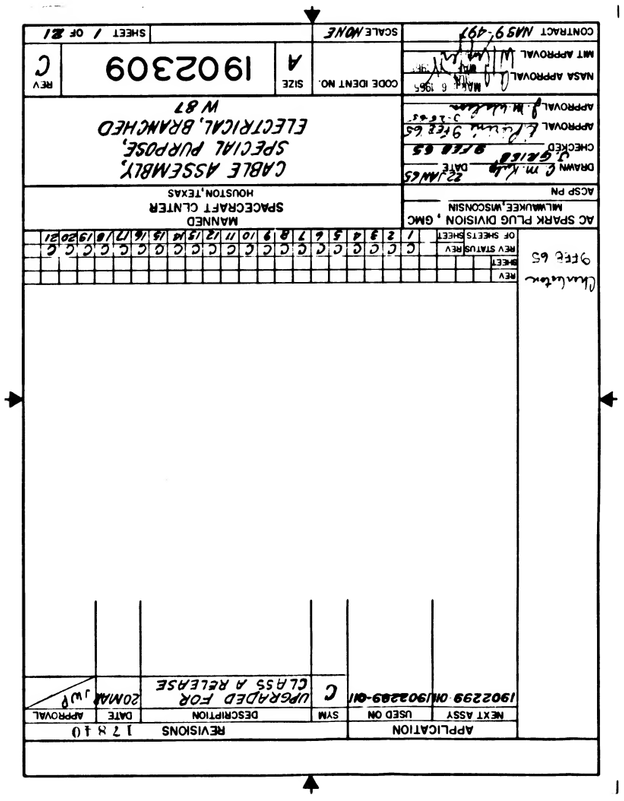
1902308

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE
(EXCEPT LENGTH)
±.50

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
			ACSP PN	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, W88
			DRAWN 28 JAN 65 DATE	
			CHECKED J. GRIEB 2/28/65	
			APPROVAL 3/28/65	
			APPROVAL	
1902299-011	1902299-01	MATERIAL —	NASA APPROVAL MAR 8 1965	CODE IDENT NO. / SIZE D / 1902308
NEXT ASSY	USED ON		MIT APPROVAL	SCALE NONE / SHEET 25 OF 25
APPLICATION		CONTRACT NAS 9-497		


APPLICATION
NEXT ASSY
USED ON
1902299 ON 1902289-01
REVISIONS
SYM
DESCRIPTION
DATE
APPROVAL
C
UPGRADED FOR CLASS A RELEASE
20MAR
J.W.P.
MANNED SPACECRAFT CENTER HOUSTON, TEXAS
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED W 87
1902309
A
SIZE
CODE IDENT NO.
REV
C
SCALE NONE
SHEET 1 OF 21
CONTRACT NAS9-497
DRAWN
CHECKED
APPROVAL
NASA APPROVAL
MIT APPROVAL
MAR 6 1965
SHEET
REV STATUS
OF SHEETS

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND 1002206
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND 1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
6	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
9	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
10	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR WHITE PER ND1002019. MARKING TO READ AWAY FROM ATTACHED ACCESSORY.
11	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267) .12 INCH HIGH CHARACTERS, COLOR WHITE
12	SERIALIZE PER ND1002023.
13	FASTEN MARKER SECURELY WITH ITEM 27. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. CENTRALIZE.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS, COLOR WHITE, HOT IMPRESSION STAMP PER ND 1002019. CENTRALIZE.
15	FASTEN MARKER SECURELY WITH ITEM 27. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTOR.
16	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SEAL ZIPPER TUBING PER ND1002153.
20	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER R - WHITE WITH LETTER R OR WHITE WITH RED TRACER W - WHITE Y - WHITE WITH YELLOW TRACER
21	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
22	SPOT TIE AS SHOWN USING ITEM 27.
23	ITEM 31 FURNISHED WITH ITEMS 6 AND 9.
24	ITEM 32 FURNISHED WITH ITEMS 7 AND 8.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902309-001	WIRE-ND1002181, TYPE 1, CLASS 1, WHT, 22AWG, 1343 FT TOTAL LENGTH
	2	1	1902309-002	WIRE-ND1002181, TYPE 1, CLASS 1, WHT, 20AWG, 173 FT TOTAL LENGTH
	3	1	1902309-003	WIRE-ND1002181, TYPE 2, CLASS 4, WHT. JKT., 22AWG WHT/BLU, WHT/RED, 60 FT TOTAL LG.
	4	1	1902309-004	WIRE-ND1002181, TYPE 2, CLASS 4, WHT. JKT., 20AWG WHT/BLU, WHT/RED, 15 FT. TOTAL LENGTH
	5	1	1902309-005	WIRE-ND1002181, TYPE 2, CLASS 1, T2 22AWG WHT. WITH LETTER L, WHT WITH LETTER R, 8 FT TOT. LG.
	6	1	MS3126F24-61SX	(1897048-612) CONNECTOR-PLUG, ELECTRICAL, CRIMP TYPE
	7	1	MS3126F22-55PW	(1897045-551) CONNECTOR-PLUG, ELECTRICAL, CRIMP TYPE
	8	1	MS3126F14-19P	(1897089-190) CONNECTOR-PLUG, ELECTRICAL, CRIMP TYPE
	9	1	MS3126F24-61SW	(1897048-611) CONNECTOR-PLUG, ELECTRICAL, CRIMP TYPE
17	10	1	1897173- 4	CONNECTOR, RECEPTACLE, ELECTRICAL
17	11	1	1016369-340	CONNECTOR-ELECTRICAL-PLUG AND RECEPTACLE
17	12	4	1000243- 10	FERRULE, ELEC COND.
17	13	5	1000242- 11	FERRULE, ELEC COND.
17	14	5	1000243- 14	FERRULE, ELEC COND.

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
17 15	5	1000242- 12	FERRULE, ELEC COND.
16	1	1902309-006	WIRE-ND1002181, TYPE 3, CLASS 4, WHT. JKT. 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 6 FT TOT. LG.
17 17	1	1000243- 11	FERRULE, ELEC COND.
17 18	4	1000243- 4	FERRULE, ELEC COND.
19	1	1902309-007	WIRE-ND1002181, TYPE 1, CLASS 4, WHT JKT 22AWG WHT, 54 FT TOTAL LENGTH.
17 20	4	1000242- 4	FERRULE, ELEC COND.
21	1	1902309-010	ZIPPER TUBING ND1002155, TYPE 1, 1.75 INSIDE DIAMETER 19FT TOTAL LENGTH
17 22	10	1010490-194	INSULATION-SLEEVING, ELECTRICAL
17 23	13	1010490-198	INSULATION-SLEEVING, ELECTRICAL
17 24	5	1010490-196	INSULATION-SLEEVING, ELECTRICAL
17 25	6	1016128-041	BAND, IDENTIFICATION BLANK
17 26	1	1016128-011	BAND, IDENTIFICATION BLANK
18 27	AR	1012507-004	TAPE, LACING AND TYING
28	1	1902309-008	ZIPPER TUBING-ND1002155, TYPE 1, .50 INSIDE DIA, 11 FT 6 IN. TOTAL LENGTH.
29	1	1902309-009	ZIPPER TUBING-ND1002155, TYPE 1, .62 INSIDE DIA, 68 IN. TOTAL LENGTH.
17 30	4	1016006-002	SPLICE-REDUCER, CRIMP STYLE.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR ✱ C | SHEET 6 OF 21

MIL 2084 4-83

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
31	63	MS3193A-20A	(1896877-020) CONTACT-ELECTRICAL, SOCKET, CRIMP
32	34	MS3192A-20A	(1896855-020) CONTACT-ELECTRICAL, PIN, CRIMP
17 33	89	1010738- 6	CONTACT, CRIMP TYPE, SOCKET
17 34	20	1016369-420	CONNECTOR-ELECTRICAL-CONTACT MALE
17 35	1	1016006-003	SPLICE-REDUCER, CRIMP STYLE
17 36	3	1016006-001	SPLICE-REDUCER, CRIMP STYLE
17 37	1	1010490-224	INSULATION-SLEEVING, ELECTRICAL
17 38	4	1010490-226	INSULATION-SLEEVING, ELECTRICAL
17 39	3	1010490-228	INSULATION-SLEEVING, ELECTRICAL
17 40	1	1015902- 46	TERMINAL-LUG, CRIMP STYLE
17 41	1	~~1902309-013~~ ~~1016127-006~~ 1016127-226	TUBING, SHRINKFIT, FLEXIBLE - 6 IN. TOTAL LG. (A)
42	1	1902309-011	WIRE- ND 1002181, TYPE 1, CLASS 4, WHT JKT, 20AWG WHT, 19 FT. TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR ✱ ★ C | SHEET 7 OF 21

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-X*					.22	NO		31	
			P4-3					.10	NO		33	
A 2	1		P1-Y*					.22	NO		31	
			P4-17					.10	NO		33	
A 3	1		P1-Z*					.22	NO		31	
			P4-16					.10	NO		33	
A 4	1		P1-FF					.22	NO		31	
			P4-4					.10	NO		33	
A 5	1		P1-GG					.22	NO		31	
			P4-5					.10	NO		33	
A 6	1		P1-HH					.22	NO		31	
			P4-18					.10	NO		33	
A 7	1		P1-CC					.22	NO		31	
			P4-20					.10	NO		33	
A 8	1		P1-DD					.22	NO		31	
			P4-6					.10	NO		33	
A 9	1		P1-EE					.22	NO		31	
			P4-7					.10	NO		33	
A 10	1		P1-N					.22	NO		31	
			P4-14					.10	NO		33	
A 11	1		P1-F					.22	NO		31	
			P4-26					.10	NO		33	
A 12	1		P1-K					.22	NO		31	
			P4-41					.10	NO		33	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR ✱ C | SHEET 8 OF 21

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-L					.22	NO		31	
			P4-40					.10	NO		33	
A 14	1		P1-C*					.22	NO		31	
			P4-51					.10	NO		33	
A 15	1		P1-S					.22	NO		31	
			P4-53					.10	NO		33	
A 16	1		P1-F*					.22	NO		31	
			P4-65					.10	NO		33	
A 17	1		P1-E*					.22	NO		31	
			P4-77					.10	NO		33	
A 18	1		P1-N*					.22	NO		31	
			P4-74					.10	NO		33	
A 19	1		P1-M*					.22	NO		31	
			P4-92					.10	NO		33	
A 20	1		P1-G*					.22	NO		31	
			P4-85					.10	NO		33	
A 21	1		P1-H*					.22	NO		31	
			P4-98					.10	NO		33	
A 22	1		P1-P*					.22	NO		31	
			P4-90					.10	NO		33	
A 23	1		P1-B*					.22	NO		31	
			P4-93					.10	NO		33	
A 24	1		P1-D*					.22	NO		31	
			P4-106					.10	NO		33	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR ✱ C | SHEET 9 OF 21

MIL 2084 4-83

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1		P1-W* P4-94					.22 .10	NO NO		31 33	
A	26	1		P1-Z P4-95					.22 .10	NO NO		31 33	
A	27	1		P1-Q* P4-100					.22 .10	NO NO		31 33	
A	28	1		P1-G P4-83					.22 .10	NO NO		31 33	
A	29			DELETED									
A	29B			DELETED									
A	29L			DELETED									
A	29R			DELETED									
A	30	2		P1-A* E7					.22 .37	NO NO		31	
A	31	1		P2-R P4-15					.22 .10	NO NO		32 33	
A	32	1		P2-R* P4-55					.22 .10	NO NO		32 33	
A	33	1		P2-S* P4-46					.22 .10	NO NO		32 33	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR C | SHEET 10 OF 21

MIL 3044 4.83

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	34	1		P2-S P4-50					.22 .10	NO NO		32 33	
A	35	1		P2-Y P4-66					.22 .10	NO NO		32 33	
A	36	1		P2-E* P4-67					.22 .10	NO NO		32 33	
A	37	1		P2-D* P4-68					.22 .10	NO NO		32 33	
A	38	1		P2-X* P4-75					.22 .10	NO NO		32 33	
A	39	1		P2-Y* P4-105					.22 .10	NO NO		32 33	
A	40	1		P2-W* P4-76					.22 .10	NO NO		32 33	
A	41	1		P2-U* P4-87					.22 .10	NO NO		32 33	
A	42	1		P2-T* P4-86					.22 .10	NO NO		32 33	
A	43	1		P2-V* P4-101					.22 .10	NO NO		32 33	
A	44	1		P2-Z P4-78					.22 .10	NO NO		32 33	
A	45	1		P2-C* P4-79					.22 .10	NO NO		32 33	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR C | SHEET 11 OF 21

MIL 3044 4.83

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	46	1		P2-B* P4-81					.22 .10	NO NO		32 33	
A	47	1		P2-J* P4-86					.22 .10	NO NO		32 33	
A	48	1		P2-F* P4-89					.22 .10	NO NO		32 33	
A	49	1		P2-G* P4-104					.22 .10	NO NO		32 33	
A	50	1		P2-H* P4-97					.22 .10	NO NO		32 33	
A	51	1		P2-K* P4-102					.22 .10	NO NO		32 33	
A	52	1		P2-I* P4-103					.22 .10	NO NO		32 33	
A	53	2		P2-B E5					.22 .37	NO NO		32	
A	54	2		P2-A* E7					.22 .37	NO NO		32	
A	55	1		P3-C P4-42					.22 .10	NO NO		32 33	
A	56	2		P3-D E8					.22 .37	NO NO		32	
A	57	1		P3-E P4-49					.22 .10	NO NO		32 33	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR C | SHEET 12 OF 21

MIL 3044 4.83

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	58	1		P3-F P4-47					.22 .10	NO NO		32 33	
A	59	2		P3-P P5-KK					.22 .18	NO NO		32 34	
A	60	2		P3-R P5-LL					.22 .18	NO NO		32 34	
A	61	2		P3-G P5-NN					.22 .18	NO NO		32 34	
A	62	2		P3-J E4					.22 .37	NO NO		32	
A	63	4				3.30 3.30	3.00 3.00					A 24 4 A 22, 14, 15	
A	63B	1		E4 SHLD A63					.37 .37	NO NO			
A	63L			P5-A E2					.18 .37	NO NO		34	
A	63R			P5-C E3					.18 .37	NO NO		34	
A	64	4				3.30 3.30	3.00 3.00					A 24 4 A 22, 14, 15	
A	64B	1		E4 SHLD A64					.37 .37	NO NO			
A	64L			P5-E E2					.18 .37	NO NO		34	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902309 | SCALE-NONE | REV LTR C | SHEET 13 OF 21

MIL 3044 4.83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 64R			P5-H E3					.18 NO .37 NO			34	
A 65	4				2.80 2.80	2.50 2.50				4	A 24 A 22, 14, 15	
A 65B	1		E4 SHLD A65					.37 NO .37 NO				
A 65L			P5-J E1					.18 NO .37 NO			34	
A 65R			P5-D E1					.18 NO .37 NO			34	
A 66	1		P5-T P4-31					.18 NO .10 NO			34 33	
A 67	1		P5-S P4-30					.18 NO .10 NO			34 33	
A 68	1		P5-U P4-33					.18 NO .10 NO			34 33	
A 69	2		P5-Y E5					.18 NO .37 NO			34	
A 70	1		P5-R P4-44					.18 NO .10 NO			34 33	
A 71	1		P5-F P4-32					.18 NO .10 NO			34 33	
A 72	1		P5-Z P4-84					.18 NO .10 NO			34 33	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 14 OF 21

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	2		P5-MM E8					.18 NO .37 NO			34	
A 74	2		P5-X E4					.18 NO .37 NO			34	
A 75	2		P5-V P7-MM					.18 NO .22 NO			34 31	
A 76	2		P5-W E6					.18 NO .37 NO			34	
A 77	4				2.80 2.80	2.50 2.50				4	A 24 A 22, 14, 15	
A 77B	1		E4 SHLD A77					.37 NO .37 NO				
A 77L			P7-E E2					.22 NO .37 NO			31	
A 77R			P7-D E1					.22 NO .37 NO			31	
A 78	4				2.80 2.80	2.50 2.50				4	A 24 A 22, 14, 15	
A 78B	1		E4 SHLD A78					.37 NO .37 NO				
A 78L			P7-G E2					.22 NO .37 NO			31	
A 78R			P7-F E1					.22 NO .37 NO			31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 15 OF 21

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79			P7-H E4					.22 NO .37 NO			31	
A 80	1		P7-J P4-27					.22 NO .10 NO			31 33	
A 81	1		P7-K P4-9					.22 NO .10 NO			31 33	
A 82	1		P7-L P4-19					.22 NO .10 NO			31 33	
A 83	1		P7-P P4-2					.22 NO .10 NO			31 33	
A 84	1		P7-R P4-70					.22 NO .10 NO			31 33	
A 85	1		P7-S P4-72					.22 NO .10 NO			31 33	
A 86	3				2.30 2.30	2.00 2.00				4	A 22, 12, 13 A 23	
A 86A	1		SHLD A86 E7					.37 NO .37 NO				
A 86L			P7-W P4-22					.22 NO .10 NO			31 33	
A 86R			P7-V P4-8					.22 NO .10 NO			31 33	
A 87	3				2.30 2.30	2.00 2.00				4	A 22, 12, 13 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 16 OF 21

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 87A	1		SHLD A87 E7					.37 NO .37 NO				
A 87L			P7-C* P4-24					.22 NO .10 NO			31 33	
A 87R			P7-B* P4-10					.22 NO .10 NO			31 33	
A 88	3				2.30 2.30	2.00 2.00				4	A 22, 12, 13 A 23	
A 88A	1		SHLD A88 E7					.37 NO .37 NO				
A 88L			P7-G* P4-35					.22 NO .10 NO			31 33	
A 88R			P7-F* P4-34					.22 NO .10 NO			31 33	
A 89	5											
A 89L			P7-K* P4-60					.22 NO .10 NO			31 33	
A 89R			P7-J* P4-43					.22 NO .10 NO			31 33	
A 90	3				2.30 2.30	2.00 2.00				4	A 27, 12, 13 A 23	
A 90A	1		SHLD A90 E7					.37 NO .37 NO				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 17 OF 21

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 90L			P7-Q*					.22	NO		31	
			P4-69					.10	NO		33	
A 90R			P7-P*					.22	NO		31	
			P4-80					.10	NO		33	
A 91	19				2.30	2.00				4	A 23, 18, 20	
					2.30	2.00					A 23	
A 91A	1		SHLD A91					.37	NO			
			E7					.37	NO			
A 91W			P7-Z					.22	NO		31	
			P4-45					.10	NO		33	
A 92	1		P7-R*					.22	NO		31	
			P4-58					.10	NO		33	
A 93	1		P7-S*					.22	NO		31	
			P4-59					.10	NO		33	
A 94	1		P7-U*					.22	NO		31	
			P4-82					.10	NO		33	
A 95	1		P7-AA					.22	NO		31	
			P4-96					.10	NO		33	
A 96	1		P7-BB					.22	NO		31	
			P4-108					.10	NO		33	
A 97	1		P7-V*					.22	NO		31	
			P4-1					.10	NO		33	
A 98	2		P7-CC					.22	NO		31	
			E6					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 18 OF 21

MIL 3044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 99	16				2.30	2.00				4	A 22, 13, 17	
					2.30	2.00					A 23	
A 99A	1		SHLD A99					.37	NO			
			E4					.37	NO			
A 99L			E2					.37	NO			
			P4-52					.10	NO		33	
A 99R			E3					.37	NO			
			P4-61					.10	NO		33	
A 99Y			E1					.37	NO			
			P4-54					.10	NO		33	
A 100	1		E5					.37	NO			
			P4-73					.10	NO		33	
A 101	1		E6					.37	NO			
			P4-71					.10	NO		33	
A 102	1		E8					.37	NO			
			P4-48					.10	NO		33	
A 103	1		P4-91					.10	NO		33	
			E9					.37	NO		40	
A 104	19				1.80	1.50					A 23	
					3.30	3.00				4	A 23, 18, 20	
A 104B	1		E4					.37	NO			
			SHLD A104					.37	NO			
A 104W			P3-K					.22	NO		32	
			P7-T					.22	NO		31	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 19 OF 21

MIL 3044 4-63

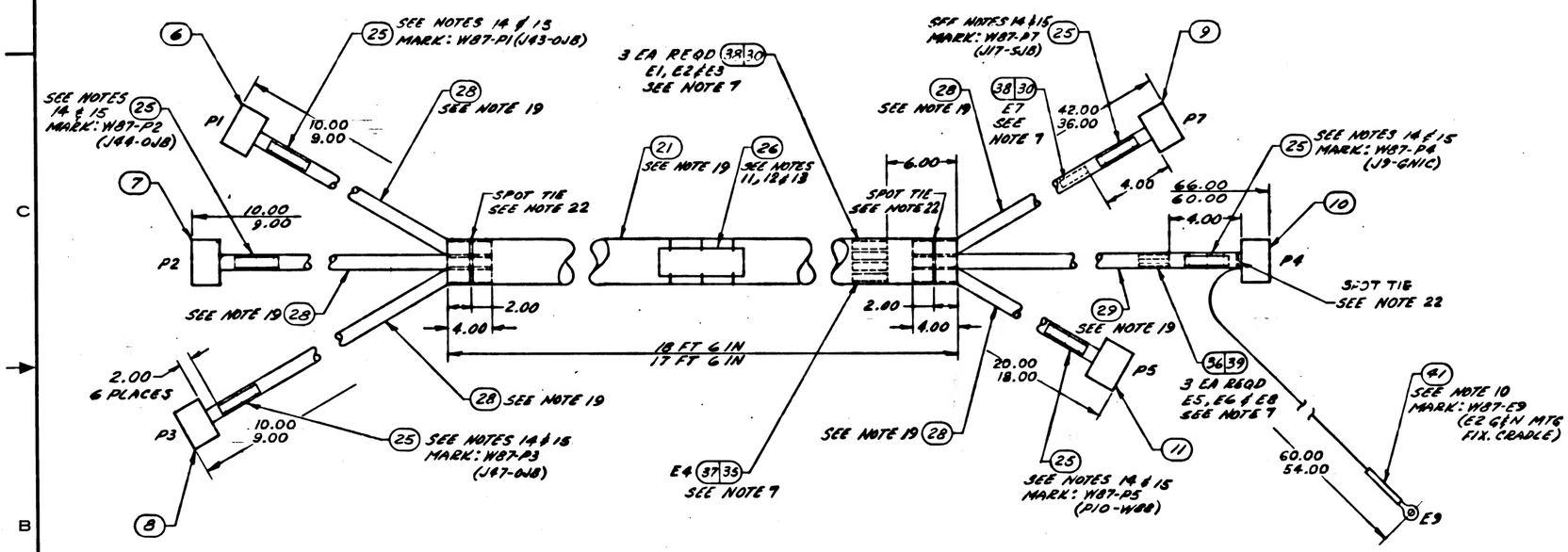
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 105	19				1.80	1.50					A 23	
					3.30	3.00				4	A 23, 18, 20	
A 105B	1		E4					.37	NO			
			SHLD A105					.37	NO			
A 105W			P3-L					.22	NO		32	
			P7-U					.22	NO		31	
A 106	42				3.30	3.00					A 23	
					3.30	3.00				4	A 23, 18, 20	
A 106B	1		E4					.37	NO			
			SHLD A106					.37	NO			
A 106W			P1-E					.22	NO		31	
			E1					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902309
SCALE - NONE	REV LTR X C	SHEET 20 OF 21

MIL 3044 4-63

1902309 C

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD.			



LOCATION TOLERANCE (EXCEPT LENGTH) ± .50

1902299-011	1902299-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + − + − + − DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
NEXT ASSY	USED ON	MATERIAL —	DRAWN C.M. Kuffa 9 FEB 65 DATE	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED W87	
APPLICATION		CONTRACT NAS 9-497	CHECKED J. GRIEB 9 FEB 65	CODE IDENT NO.	SIZE D 1902309
			APPROVAL K. Pierce 9 FEB 65		
			APPROVAL 2-11-65		
			NASA APPROVAL MAR 26 1965	SCALE NONE	SHEET 21 OF 81
			MIT APPROVAL MAR 26 1965		

3 2 1

SH, ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
1, E13	L1	1016102	REACTOR, VARIABLE	1760-2640 UH
1, C13	L2	1016102	VARIABLE	1760-2640 UH
1, B12	L3	1016149-007		125 NH, ±1%
1, B12	L4	1016149-007		125 NH, ±1%
1, B12	L5	1015995-8		4.95 MH, ±10%
1, C10	L6	1015995-10		6.55 MH, ±10%
2, B9	L7	1015841-3	VARIABLE	0.011-0.11 H
1, B12	L8			0.011-0.11 H
1, B13	L9			0.011-0.11 H
1, B14	L10			0.011-0.11 H
1, B15	L11			0.011-0.11 H
1, B15	L12			
	P1	1015818-660	CONNECTOR, PLUG	66 PIN
	P2			
	P3			
	P4			
	P5			
	P6			
	P7			
	P8			
3, E2	Q1	1015935-001	TRANSISTOR	
3, F2	Q2	1015934-001		
3, D2	Q3	1015935-001		
3, D2	Q4	1015934-001		
2, F3	Q5	1015928-002		
2, E3	Q6			
2, D3	Q7			
2, C3	Q8			
2, F15	R1	RC20GF102J (1896952-049)	RESISTOR, MIL-R-11/3	1K, ±5%, 1/2 W
2, F12	R2	RC20GF272J (1896952-059)	MIL-R-11/3	2.7K, ±5% 1/2 W
2, E12	R3	1015989-007	VARIABLE	10K, ±5%, 1 W
2, C15	R4	RC20GF102J (1896952-049)	MIL-R-11/3	1K, ±5%, 1/2 W
2, C12	R5	RC20GF272J (1896952-059)	MIL-R-11/3	2.7K, ±5%, 1/2 W
2, C12	R6	1015989-007	VARIABLE	10K, ±5%, 1 W
3, F4	R7	RC20GF223J (1896952-081)	MIL-R-11/3	22K, ±5%, 1/2 W
3, F3	R8			22K, ±5%, 1/2 W
3, F4	R9			22K, ±5%, 1/2 W
3, F4	R10			10K, ±5%, 1/2 W
3, E3	R11	RC20GF103J (1896952-073)		30K, ±5%, 1/2 W
3, E3	R12	RC20GF303J (1896952-084)		200K, ±5%, 1/2 W
3, E2	R13	RC20GF204J (1896952-104)		6.2K, ±5%, 1/2 W
3, E2	R14	RC20GF622J (1896952-068)		5 MEG, ±10%, 1/2 W
3, F1	R15	RV6LAYSA505A (1897143-016)	VARIABLE, MIL-R-94/3	10K, ±5%, 1/2 W
3, F2	R16	RC20GF103J (1896952-073)	MIL-R-11/3	10Ω, ±5%, 1/2 W
3, F2	R17	RC20GF100J (1896952-001)		22K, ±5%, 1/2 W
3, C4	R18	RC20GF223J (1896952-081)		22K, ±5%, 1/2 W
3, B3	R19			22K, ±5%, 1/2 W
3, B4	R20			22K, ±5%, 1/2 W
3, C4	R21			30K, ±5%, 1/2 W
3, C3	R22	RC20GF303J (1896952-084)		10K, ±5%, 1/2 W
3, C3	R23	RC20GF103J (1896952-073)		200K, ±5%, 1/2 W
3, C2	R24	RC20GF204J (1896952-104)		6.2K, ±5%, 1/2 W
3, C2	R25	RC20GF622J (1906952-068)		5 MEG, ±10%, 1/2 W
3, D1	R26	RV6LAYSA505A (1897143-016)	VARIABLE, MIL-R-94/3	10K, ±5%, 1/2 W
3, C2	R27	RC20GF103J (1896952-073)	MIL-R-11/3	43Ω, ±5%, 1/2 W
2, F10	R28	RC20GF430J (1896952-016)	MIL-R-11/3	49.9K, ±1%, 1/2 W
4, E16	R29	RN70C4992F (1896972-452)	MIL-R-10509/3	2.5Ω, ±1%, 3 W
2, G7	R30	1015926-108		30Ω, ±1%, 3W
2, G7	R31	1015926-133	MIL-R-10509/3	287K, ±1%, 1/2 W
2, D5	R32	RN70B2873F (1896973-525)		280K, ±1%, 1/2 W
2, D5	R33	RN70B2803F (1896973-524)		274K, ±1%, 1/2 W
2, C5	R34	RN70B2743F (1896973-523)		287K, ±1%, 1/2 W
2, C5	R35	RN70B2873F (1896973-525)	MIL-R-11/3	10K, ±5%, 1/2 W
2, E7	R36	RC20GF103J (1896952-073)	MIL-R-10509/3	255K, ±1%, 1/2 W
2, E5	R37	RN70B2553F (1896973-520)		
	R38	DELETED		
	R39	DELETED		
	R40	DELETED		
	R41	DELETED		
	R42	DELETED		
	R43	DELETED		
	R44	DELETED		
3, D15	R45	RC20GF102J (1896952-049)	RESISTOR, MIL-R-11/3	1K, ±5%, 1/2 W
4, B12	R46	1016375-001	RESISTOR, VARIABLE	100Ω, ±5%, 5 W
4, B12	R47	1015978-485		175Ω, ±1%, 5 W
4, B13	R48	1015978-485	VARIABLE	175Ω, ±1%, 5 W
4, B13	R49	1016375-001	VARIABLE	100Ω, ±5%, 5 W
4, B13	R50	1016375-001		175Ω, ±1%, 5 W
4, B13	R51	1015978-485	VARIABLE	100Ω, ±5%, 5 W
4, B14	R52	1016375-001		175Ω, ±1%, 5 W
4, B14	R53	1015978-485	VARIABLE	100Ω, ±5%, 5 W
4, B14	R54	1016375-001		175Ω, ±1%, 5 W
4, B14	R55	1015978-485	VARIABLE	100Ω, ±5%, 5 W
4, B15	R56	1016375-001		175Ω, ±1%, 5 W
4, B15	R57	1015978-485	MIL-R-11/3	1K, ±5%, 1/2 W
2, F4	R58	RC20GF102J (1896952-049)		2K, ±5%, 1/2 W
2, F4	R59	RC20GF202J (1896952-056)		43K, ±5%, 1/2 W
2, F4	R60	RC20GF433J (1896952-088)		160K, ±5%, 1/2 W
2, F4	R61	RC20GF164J (1896952-102)		1K, ±5%, 1/2 W
2, E4	R62	RC20GF102J (1896952-049)		2K, ±5%, 1/2 W
2, E4	R63	RC20GF202J (1896952-056)		43K, ±5%, 1/2 W
2, E4	R64	RC20GF433J (1896952-088)		160K, ±5%, 1/2 W
2, E4	R65	RC20GF164J (1896952-102)		1K, ±5%, 1/2 W
2, D4	R66	RC20GF102J (1896952-049)		2K, ±5%, 1/2 W
2, E4	R67	RC20GF202J (1896952-056)		43K, ±5%, 1/2 W
2, D4	R68	RC20GF433J (1896952-088)		91K, ±5%, 1/2 W
2, D4	R69	RC20GF913J (1896952-096)		1K, ±5%, 1/2 W
2, C4	R70	RC20GF102J (1896952-049)		2.4 K, ±5%, 1/2 W
2, D4	R71	RC20GF242J (1896952-058)		43K, ±5%, 1/2 W
2, D4	R72	RC20GF433J (1896952-088)		75K, ±5%, 1/2 W
2, C4	R73	RC20GF753J (1896952-094)		120Ω, ±5%, 1/2 W
2, C4	R74	RC20GF121J (1896952-027)		15Ω, ±1%, 20 W
4, C9	R75	RE75G15RC (1896982-104)	MIL-R-18546	14.2Ω, ±1%, 20 W
2, G6	R76	RE75G34R1 (1896982-215)		34.8Ω, ±1%, 15 W
2, F7	R77	RE70G34R8 (1897094-245)	VARIABLE	2K, ±5%, 2 W
2, C3	R78	1015977-2		20K, ±5%, 2 W
2, F5	R79	-5		10K, ±5%, 2 W
2, E5	R80	-4		1K, ±5%, 2 W
2, G2	R81	-1		

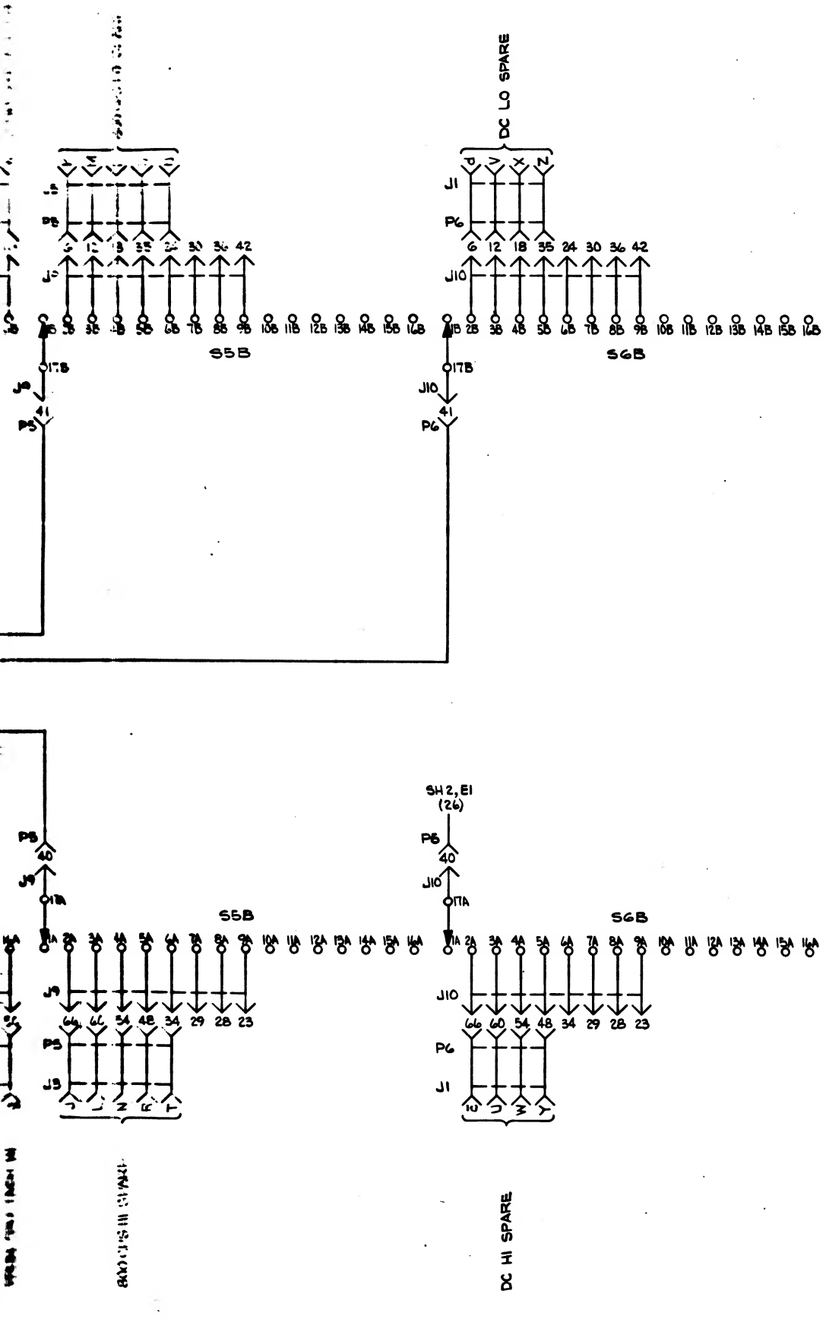
SH, ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
TABLE I	A1	1016378	SCHMITT TRIGGER ASSY	
	A2	1016351	LOGIC DRIVER ASSY	
	A3	1016350	FLIP-FLOP ASSY	
	A4	1016350	FLIP-FLOP ASSY	
4, D15	B1	1016169	RESOLVER, TRANSMITTER	
2, E14	C1	CTM102VDJ (1896957-277)	CAPACITOR, MIL-C-27287/1	.001 UF, ±5%, 300 VDC
2, F14	C2	CTM102VDJ (-277)		.001 UF, ±5%, 300 VDC
2, E13	C3	CTM183VBJ (-237)		.018 UF, ±5%, 100 VDC
2, B14	C4	CTM102VDJ (-277)		.001 UF, ±5%, 300 VDC
2, C14	C5	CTM102VDJ (-277)		.001 UF, ±5%, 300 VDC
2, C13	C6	CTM183VBJ (-237)		.018 UF, ±5%, 100 VDC
3, E3	C7	CP05A1KC104K3 (1896959-026)	MIL-C-25/1	0.1 UF, ±10%, 200 VDC
3, F2	C8			0.1 UF, ±10%, 200 VDC
3, C3	C9			0.1 UF, ±10%, 200 VDC
4, F16	C10	CY20D6816 (1896965-103)	MIL-C-11272/3	680 UUF, ±2%, 500 VDC
2, G7	C11	CS13AE560K (1896954-111)	MIL-C-26655/2	56 UF, ±10%, 20 VDC
	C12	DELETED		
	C13	DELETED		
2, F4	C14	CS13AF6R8K (1896954-141)	CAPACITOR, MIL-C-26655/2	6.8 UF, ±10%, 35 VDC
2, E4	C15			6.8 UF, ±10%, 35 VDC
2, D4	C16			6.8 UF, ±10%, 35 VDC
2, C4	C17			22 UF, ±10%, 50 VDC
2, C4	C18	CS13AG220K (1896954-182)		22 UF, ±10%, 50 VDC
2, C4	C19	CS13AG220K (1896954-182)		
2, E14	CR1	1N486B (1896966-003)	SEMICONDUCTOR DEVICE, MIL-S-19500	
2, E14	CR2			
2, E14	CR3			
2, E14	CR4			
2, C14	CR5			
2, C14	CR6			
2, C14	CR7			
2, C14	CR8			
3, F4	CR9			
3, F4	CR10			
3, F4	CR11			
3, F3	CR12			
3, F3	CR13			
3, C4	CR14			
3, B4	CR15			
3, B4	CR16			
3, C3	CR17			
3, C3	CR18			
2, G7	CR19	1N645 (1896966-004)		
2, G7	CR20	1N645 (1896966-004)		
3, E8	CR21	1N486B (1896966-003)		
	CR22	DELETED		
	CR23			
	CR24			
	CR25			
2, F7	CR26	1016374-001	SEMICONDUCTOR DEVICE	
2, F7	CR27	1015939-3	SEMICONDUCTOR DEVICE	
3, G2	DS1	(4) MS-25237-327	LAMP, INCANDESCENT	
3, D8	DS2	(4) MS-25237-327	LAMP, INCANDESCENT	
4, E5	E1	1015902-45	TERMINAL, LUG	
	E2 THRU E10			
4, C6	F1	F02B250V3/4A(1897099-126)	FUSE, MIL-F-15160/02	.75A, 250 V
4, C6	F2	F02B250V3/4A(1897099-126)	FUSE, MIL-F-15160/02	.75A, 250V
4, C10	F3	F02A250V2A (1897099-011)		2A,
3, F10	F4	F02A250V2A (1897099-011)		2A,
2, G10	F5	F02A250V1/8A (1897099-004)		.125A,
3, G5	F6			.125A,
3, D5	F7			.125A,
2, E6	FL1	1016370-3	FILTER, LOW PASS	
2, B6	FL2	-3		
2, C6	FL3	-3		
2, D6	FL4	-4		
2, E6	FL5	-4		
	J1	MS3127E-24-61SX (1897056-612)	CONNECTOR, RECP	61 PIN
	J2	-61SY -613		
	J3	-61S -610		
	J4	-61SW -611		
	J5	1902261-011	SWITCH & CONNECTOR ASSY	66 PIN
	J6	-021		
	J7	-031		
	J8	-041		
	J9	-051		
	J10	-061		
	J11	-071		
	J12	-081		
	J13	1016379-105	CONNECTOR, RECP	31 PIN
	J14	-107		
	J15	-103		
	J16	-103		
2, G1	J17	1016323-001	POST, BINDING	
1, G22	J18	-002		
2, D12	J19	-001		
2, D12	J20	-002		
2, C12	J21	-001		
3, C5	J22	-001		
3, B5	J23	-002		
3, D5	J24	-001		
3, D5	J25	-002		
4, B6	J26	-001		
4, G5	J27	-002		

REVISIONS TCR 21882				
SYM	ZONE	DESCRIPTION	CHG NO	DATE / APPD

NEXT ASSY	USED ON		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING MATERIAL		AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		ACSP PN	OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM
		DRAWN 16 Mar 65 DATE	
		CHECKED 13 APR 65	
		APPROVED 13 APR 65	
		APPROVAL	
		NASA APPROVAL	CODE IDENT NO. 99974 SIZE D
CONTRACT NAS 9-497		MIT APPROVAL	SCALE — SHEET 1 OF 3

1902313

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UNUSED TERMINALS

J1	A THRU G
J2	A THRU H, J, P, R
J3	A THRU M
J4	A
J5	1, 2, 3, 7, 8, 9, 13, 14, 15, 19, 20, 21, 25, 26, 27, 31 THRU 34, 37 THRU 40, 43 THRU 46, 49 THRU 52, 55 THRU 58, 61 THRU 64
J6	37
J7	1, 2, 3, 7 THRU 10, 13 THRU 16, 19, 20, 21, 25, 26, 27, 31, 32, 37 THRU 40, 43 THRU 45, 49, 50, 51, 55, 56, 57, 61, 62, 63
J8	9 THRU 12, 19, 25, 26, 31, 32, 33, 37, 38, 43, 44, 49, 50, 57, 58, 62
J9	1, 7, 13, 19, 20, 25, 26, 31, 32, 37, 38, 43, 44, 49, 55, 61
J10	1, 7, 13, 19, 20, 25, 26, 31, 32, 37, 38, 43, 44, 49, 55, 61
J11	1, 2, 7 THRU 10, 13, 14, 15, 17, 19 THRU 22, 25, 26, 31, 37, 38, 43, 44, 45, 49 THRU 53, 55 THRU 59, 61, 62
J12	1 THRU 4, 7 THRU 10, 13 THRU 16, 19 THRU 23, 25 THRU 29, 31 THRU 35, 37 THRU 41, 43 THRU 47, 49 THRU 52, 55 THRU 58, 61 THRU 64
J13 (A1)	A, B, D, E, H, M, P, S, V THRU Y, a THRU f
J14 (A2)	A, C, D, F THRU K, M, R THRU U, X, Y, a, d, f
J15 (A3)	A, B, C, E, M, R, V THRU Z, a THRU f.
J16 (A4)	A, B, C, E, M, R, W
P1	1, 2, 3, 7, 8, 9, 13, 14, 15, 19, 20, 21, 25, 26, 27, 31 THRU 34, 37 THRU 40, 43 THRU 46, 49 THRU 52, 55 THRU 58, 61 THRU 64
P2	37
P3	1, 2, 3, 5 THRU 21, 23 THRU 27, 29 THRU 32, 35 THRU 40, 43 THRU 45, 49, 50, 51, 55, 56, 57, 61, 62, 63, 65, 66
P4	1 THRU 4, 6, 9 THRU 12, 19, 25, 26, 31, 32, 33, 37, 38, 43, 44, 49, 50, 55, 57, 58, 62 THRU 66
P5	1, 7, 13, 19, 20, 23, 25, 26, 28 THRU 32, 36, 37, 38, 42, 43, 44, 49, 55, 61
P6	1, 7, 13, 19, 20, 23 THRU 26, 28 THRU 32, 34, 36, 37, 38, 42, 43, 44, 49, 55, 61
P7	1, 2, 7 THRU 10, 13, 14, 15, 17 THRU 22, 25, 26, 28, 29, 31, 34, 35, 37, 38, 41, 43, 44, 45, 46, 49 THRU 53, 55 THRU 62
P8	1 THRU 4, 7 THRU 10, 13 THRU 16, 19 THRU 23, 25 THRU 29, 31 THRU 35, 37 THRU 41, 43 THRU 47, 49 THRU 52, 55 THRU 58, 61 THRU 64
TB5	3, 4, 5, 6, 17, 18
Y1	1, 4, 5, 7
Y2	1, 4, 5, 7
Y3	1, 4, 5, 7

SH, ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
TABLE I	S1	SEE J5		
	S2	J6		
	S3	J7		
	S4	J8		
	S5	J9		
	S6	J10		
	S7	J11		
	S8	J12		
2, C2	S9	MS35059-21	SWITCH, TOGGLE	
2, E5	S10			
TABLE I	S11			
	S12			
	S13			
	S14			
3, B8	S15	1015869-811	LIGHT, INDICATOR SWITCH ASSY	
2, E15	T1	1016101	TRANSFORMER	
2, D14	T2	1015947		
2, E13	T3	1015947		
2, B15	T4	1016101		
2, D14	T5	1015947		
2, C13	T6			
3, F5	T7			
3, E4	T8			
3, B5	T9			
3, D4	T10			
4, C12	T11	1016380		
4, C13	T12			
4, C13	T13			
4, C14	T14			
4, C14	T15			
4, C15	T16			
4, C9	T17	1016155		
2, G8	T18	1016381		
2, B14	TB1	1901954-011	ENCODER SIMULATOR ASSY	
TABLE I	TB2	1902084-011	DEM & AMPL ASSY, NEGATIVE	
TABLE I	TB3	1902088-011	DEM & AMPL ASSY, POSITIVE	
TABLE I	TB4	1902090-011	NETWORK BOARD, GENERAL ASSY	
TABLE I	TB5	1902142-011	DUMMY LOAD, ELECTRICAL	
2, B4	TB6	1902234-011	BUFFER AMPLIFIER ASSY	
	XDS1	1015869-161	LIGHT, INDICATOR	
	XDS2	SEE S15		
	XF1	1015873-008	FUSE HOLDER	
	XF2			
	XF3			
	XF4			
	XF5	MS26572-1		
	XF6			
	XF7			
2, B10	Y1	1016012-006	FREQUENCY STD ASSY	
2, D10	Y2	-007		
2, E10	Y3	-005		

TABLE I
SEPARATED SYMBOL LOCATIONS

A1A, B, C, D	SH 2, B9 ;	SH 2, D9 ;	SH 2, E9 ;	SH 2, H6	
A2A, B, C, D, E	SH 2, B6 ;	SH 2, C6 ;	SH 2, D6 ;	SH 2, D6 ;	SH 2, H5
A3A, B, C	SH 2, E8 ;	SH 2, E8 ;	SH 2, H5		
A4A, B, C, D, E	SH 2, B8 ;	SH 2, B8 ;	SH 2, D8 ;	SH 2, D8 ;	SH 2, H4
S1A-A, A-B, B-A, B-B, C-A, C-B	SH 3, F7 ; SH 3, F6 ; SH 3, D6 ;	SH 3, E7 ; SH 3, E6 ; SH 3, C6			
S2A-A, A-B, B-A, B-B, C-A, C-B	SH 3, F9 ; SH 3, F11; SH 3, F14;	SH 3, D9 ; SH 3, D11; SH 3, D14			
S3A-A, A-B, B-A, B-B, C-A, C-B	SH 4, F2 ; SH 4, F3 ; SH 4, F5 ;	SH 4, D2 ; SH 4, D3 ; SH 4, D5			
S4A-A, A-B, B-A, B-B, C-A, C-B	SH 4, F7 ; SH 4, F9 ; SH 4, F10;	SH 4, D7 ; SH 4, D9 ; SH 4, D10			
S5A-A, A-B, B-A, B-B	SH 1, C19; SH 1, C17;	SH 1, F19; SH 1, F17			
S6A-A, A-B, B-A, B-B	SH 1, C20; SH 1, C16;	SH 1, F20; SH 1, F16			
S7A-A, A-B, B-A, B-B, C-A, C-B	SH 1, D21; SH 2, D1 ; SH 2, F1 ;	SH 1, F21; SH 1, D22; SH 1, F22			
S8A-A, A-B, B-A, B-B, C-A, C-B	SH 2, G10; SH 2, F11; SH 2, E11;	SH 2, F11; SH 2, D11; SH 2, C11			
S11A, B	SH 2, C7 ;	SH 2, C5			
S12A, B	SH 2, C7 ;	SH 2, C5			
S13A, B	SH 2, C7 ;	SH 2, C5			
S14A, B	SH 2, D7 ;	SH 2, D5			
TB2A, B, C	SH 3, D2 ;	SH 2, F10;	SH 4, E16		
TB3A, B, C	SH 4, C15;	SH 4, D15;	SH 3, E2		
TB4A, B, C, D, E	SH 3, E8 ;	SH 2, G7 ;	SH 2, E7 ;	SH 2, E5 ;	SH 2, C5
TB5A, B	SH 4, B12;	SH 3, D18			

SH, ZONE	REF DES
2, L13	L1
2, M13	L2
4, M12	L3
4, M12	L4
4, M10	L5
2, M8	L6
4, M12	L7
4, M13	L8
4, M13	L9
4, M14	L10
4, M15	L11
4, M15	L12
	P1
	P2
	P3
	P4
	P5
	P6
	P7
	P8
3, E2	R1
3, F2	R2
3, G2	R3
3, D2	R4
2, F3	R5
2, C3	R6
2, D3	R7
2, C3	R8
2, F15	R9
2, F12	R10
2, E12	R11
2, C15	R12
2, C12	R13
2, C12	R14
3, F4	R15
3, F3	R16
3, F4	R17
3, F4	R18
3, F4	R19
3, E3	R20
3, E3	R21
3, E2	R22
3, E2	R23
3, F1	R24
3, F2	R25
3, F2	R26
3, C4	R27
3, B3	R28
3, B4	R29
3, C4	R30
3, C3	R31
3, C3	R32
3, C2	R33
3, C2	R34
3, C1	R35
3, G2	R36
2, F10	R37
4, E16	R38
2, G7	R39
2, G7	R40
2, D5	R41
2, D5	R42
2, C5	R43
2, C5	R44
2, E7	R45
2, E5	R46
B DIS	R47
4, B12	R48
4, B12	R49
4, B13	R50
4, B13	R51
4, B13	R52
4, B13	R53
4, B14	R54
4, B14	R55
4, B14	R56
4, B14	R57
4, B15	R58
4, B15	R59
2, F4	R60
2, F4	R61
2, F4	R62
2, F4	R63
2, E4	R64
2, E4	R65
2, E4	R66
2, E4	R67
2, D4	R68
2, E4	R69
2, D4	R70
2, D4	R71
2, C4	R72
2, D4	R73
2, C4	R74
2, C4	R75
4, J10	R76
2, A8	R77
2, F7	R78
2, C3	R79
2, F5	R80
2, E5	R81
2, G2	R82

DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
SWITCH, TOGGLE	
LIGHT, INDICATOR SWITCH ASSY	
TRANSFORMER	
ENCODER SIMULATOR ASSY	
DCM & AMPL ASSY, NEGATIVE	
DCM & AMPL ASSY, POSITIVE	
NETWORK BOARD, GENERAL ASSY	
DUMMY LOAD, ELECTRICAL	
BUFFER AMPLIFIER ASSY	
LIGHT, INDICATOR	
FUSE HOLDER	
FREQUENCY STD ASSY	

TABLE I
SEPARATED SYMBOL LOCATIONS

D8 ;	SH 2, E9 ;	SH 2, H6	
C8 ;	SH 2, D6 ;	SH 2, D6 ;	SH 2, H5
B8 ;	SH 2, H5		
A8 ;	SH 2, D8 ;	SH 2, D8 ;	SH 2, H4
C7 ;			
C6 ;			
C5			
B8 ;			
B11 ;			
B14			
B6 ;			
B13 ;			
B5			
B7 ;			
B8 ;			
B10			
F10 ;			
D11			
F8 ;			
E11 ;			
F11			
F6 ;			
E5 ;			
G11			
G8			
G6			
G5			
G4			
F10 ;	SH 4, E16		
B5 ;	SH 3, E2		
B7 ;	SH 2, E7 ;	SH 2, E5 ;	SH 2, C5

SH, ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
2, E13	L1	1016102	REACTOR, VARIABLE	1760-2640 UH
2, C13	L2	1016102	VARIABLE	1760-2640 UH
4, B12	L3	1016149-007		125 MH, ±1%
4, B12	L4	1016149-007		125 MH, ±1%
4, C10	L5	1015995-8		4.95 MH, ±10%
2, G8	L6	1015995-10		6.55 MH, ±10%
4, B12	L7	1015841-3	VARIABLE	0.011-0.11 H
4, B13	L8			0.011-0.11 H
4, B13	L9			0.011-0.11 H
4, B14	L10			0.011-0.11 H
4, B15	L11			0.011-0.11 H
4, B15	L12			0.011-0.11 H
	P1	1015818-660	CONNECTOR, PLUG	66 PIN
	P2			
	P3			
	P4			
	P5			
	P6			
	P7			
	P8			
3, E2	Q1	1015935-001	TRANSISTOR	
3, F2	Q2	1015934-001		
3, C2	Q3	1015935-001		
3, D2	Q4	1015934-001		
2, F3	Q5	1015928-002		
2, E3	Q6			
2, D3	Q7			
2, C3	Q8			
2, F15	R1	RC20GF102J (1896952-049)	RESISTOR, MIL-R-11/3	1K, ±5%, 1/2 W
2, F12	R2	RC20GF272J (1896952-059)	MIL-R-11/3	2.7K, ±5% 1/2 W
2, E12	R3	1015989-007	VARIABLE	10K, ±5%, 1 W
2, C15	R4	RC20GF102J (1896952-049)	MIL-R-11/3	1K, ±5%, 1/2 W
2, C12	R5	RC20GF272J (1896952-059)	MIL-R-11/3	2.7K, ±5%, 1/2 W
2, C12	R6	1015989-007	VARIABLE	10K, ±5%, 1 W
3, F4	R7	RC20GF223J (1896952-081)	MIL-R-11/3	22K, ±5%, 1/2 W
3, F3	R8			22K, ±5%, 1/2 W
3, F4	R9			22K, ±5%, 1/2 W
3, F4	R10			22K, ±5%, 1/2 W
3, E3	R11	RC20GF103J (1896952-073)		10K, ±5%, 1/2 W
3, E3	R12	RC20GF303J (1896952-084)		30K, ±5%, 1/2 W
3, E2	R13	RC20GF204J (1896952-104)		200K, ±5%, 1/2 W
3, E2	R14	RC20GF622J (1896952-068)		6.2K, ±5%, 1/2 W
3, F1	R15	RV6LAYSA505A (1897143-016)	VARIABLE, MIL-R-94/3	5 MEG, ±10%, 1/2 W
3, F2	R16	RC20GF103J (1896952-073)	MIL-R-11/3	10K, ±5%, 1/2 W
3, F2	R17	RC20GF100J (1896952-001)		10Ω, ±5%, 1/2 W
3, C4	R18	RC20GF223J (1896952-081)		22K, ±5%, 1/2 W
3, B3	R19			22K, ±5%, 1/2 W
3, B4	R20			22K, ±5%, 1/2 W
3, C4	R21			30K, ±5%, 1/2 W
3, C3	R22	RC20GF303J (1896952-084)		10K, ±5%, 1/2 W
3, C3	R23	RC20GF103J (1896952-073)		200K, ±5%, 1/2 W
3, C2	R24	RC20GF204J (1896952-104)		6.2K, ±5%, 1/2 W
3, C2	R25	RC20GF622J (1906952-068)	VARIABLE, MIL-R-94/3	5 MEG, ±10%, 1/2 W
3, C1	R26	RV6LAYSA505A (1897143-016)	MIL-R-11/3	10K, ±5%, 1/2 W
3, C2	R27	RC20GF103J (1896952-073)	MIL-R-11/3	43Ω, ±5%, 1/2 W
2, F10	R28	RC20GF430J (1896952-016)	MIL-R-10509/3	49.9K, ±1%, 1/2 W
4, E16	R29	RN70C4992F (1896972-452)		2.5Ω, ±1%, 3 W
2, G7	R30	1015926-108	MIL-R-10509/3	30Ω, ±1%, 3W
2, G7	R31	1015926-133		287K, ±1%, 1/2 W
2, D5	R32	RN70B2873F (1896973-525)		280K, ±1%, 1/2 W
2, D5	R33	RN70B2803F (1896973-524)		274K, ±1%, 1/2 W
2, C5	R34	RN70B2743F (1896973-523)		287K, ±1%, 1/2 W
2, C5	R35	RN70B2873F (1896973-525)		10K, ±5%, 1/2 W
2, E7	R36	RC20GF103J (1896952-073)	MIL-R-11/3	255K, ±1%, 1/2 W
2, E5	R37	RN70B2553F (1896973-520)	MIL-R-10509/3	
	R38	DELETED		
	R39	DELETED		
	R40	DELETED		
	R41	DELETED		
	R42	DELETED		
	R43	DELETED		
	R44	DELETED		
3, D15	R45	RC20GF102J (1896952-049)	RESISTOR, MIL-R-11/3	1K, ±5%, 1/2 W
4, B12	R46	1016375-001	RESISTOR, VARIABLE	100Ω, ±5%, 5 W
4, B12	R47	1015978-485	VARIABLE	175Ω, ±1%, 5 W
4, B13	R48	1015978-485	VARIABLE	175Ω, ±1%, 5 W
4, B13	R49	1016375-001	VARIABLE	100Ω, ±5%, 5 W
4, B13	R50	1016375-001	VARIABLE	100Ω, ±5%, 5 W
4, B13	R51	1015978-485	VARIABLE	175Ω, ±1%, 5 W
4, B14	R52	1016375-001	VARIABLE	100Ω, ±5%, 5 W
4, B14	R53	1015978-485	VARIABLE	175Ω, ±1%, 5 W
4, B14	R54	1016375-001	VARIABLE	100Ω, ±5%, 5 W
4, B14	R55	1015978-485	VARIABLE	175Ω, ±1%, 5 W
4, B15	R56	1016375-001	MIL-R-11/3	1K, ±5%, 1/2 W
4, B15	R57	1015978-485		2K, ±5%, 1/2 W
2, F4	R58	RC20GF102J (1896952-049)		43K, ±5%, 1/2 W
2, F4	R59	RC20GF202J (1896952-056)		160K, ±5%, 1/2 W
2, F4	R60	RC20GF433J (1896952-088)		1K, ±5%, 1/2 W
2, F4	R61	RC20GF164J (1896952-102)		2K, ±5%, 1/2 W
2, E4	R62	RC20GF102J (1896952-049)		43K, ±5%, 1/2 W
2, E4	R63	RC20GF202J (1896952-056)		160K, ±5%, 1/2 W
2, E4	R64	RC20GF433J (1896952-088)		1K, ±5%, 1/2 W
2, E4	R65	RC20GF164J (1896952-102)		2K, ±5%, 1/2 W
2, D4	R66	RC20GF102J (1896952-049)		43K, ±5%, 1/2 W
2, E4	R67	RC20GF202J (1896952-056)		91K, ±5%, 1/2 W
2, D4	R68	RC20GF433J (1896952-088)		1K, ±5%, 1/2 W
2, D4	R69	RC20GF913J (1896952-096)		2.4 K, ±5%, 1/2 W
2, C4	R70	RC20GF102J (1896952-049)	MIL-R-18546	43K, ±5%, 1/2 W
2, D4	R71	RC20GF242J (1896952-058)	VARIABLE	75K, ±5%, 1/2 W
2, D4	R72	RC20GF433J (1896952-088)		120Ω, ±5%, 1/2 W
2, C4	R73	RC20GF753J (1896952-094)		15Ω, ±1%, 20 W
2, C4	R74	RC20GF270J (1896952-027)		162Ω, ±1%, 20 W
4, C10	R75	RE75G15R0 (1896982-204)		34.8Ω, ±1%, 15 W
2, G8	R76	RE75G16R2 (1896982-213)		2K, ±5%, 2 W
2, F7	R77	RC70G34R8 (1897094-245)		20K, ±5%, 2 W
2, C3	R78	1015977-2		10K, ±5%, 2 W
2, F5	R79	-5		1K, ±5%, 2 W
2, E5	R80	-4		
2, G2	R81	-1		

SH, ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
TABLE I	A1	1016378	SCHMITT TRIGGER ASSY	
	A2	1016351	LOGIC DRIVER ASSY	
	A3	1016350	FLIP-FLOP ASSY	
	A4	1016350	FLIP-FLOP ASSY	
4, D15	B1	1016169	RESOLVER, TRANSMITTER	
2, E14	C1	CTM102VDJ (1896957-277)	CAPACITOR, MIL-C-27287/1	.001 UF, ±5%, 300 VDC
2, F14	C2	CTM102VDJ (-277)		.001 UF, ±5%, 300 VDC
2, E13	C3	CTM183VBJ (-237)		.018 UF, ±5%, 100 VDC
2, B14	C4	CTM102VDJ (-277)		.001 UF, ±5%, 300 VDC
2, C14	C5	CTM102VDJ (-277)		.001 UF, ±5%, 300 VDC
2, C13	C6	CTM183VBJ (-237)		.018 UF, ±5%, 100 VDC
3, E3	C7	CPD5A1KC104K3 (1896959-026)	MIL-C-25/1	0.1 UF, ±10%, 200 VDC
3, F2	C8			0.1 UF, ±10%, 200 VDC
3, C3	C9			0.1 UF, ±10%, 200 VDC
4, F16	C10	CY20C681G (1896965-103)	MIL-C-11272/3	680 UUF, ±2%, 500 VDC
2, G7	C11	CS13AE560K (1896954-111)	MIL-C-26655/2	56 UF, ±10%, 20 VDC
	C12	DELETED		
	C13	DELETED		
2, F4	C14	CS13AF6R8K (1896954-141)	CAPACITOR, MIL-C-26655/2	6.8 UF, ±10%, 35 VDC
2, E4	C15			6.8 UF, ±10%, 35 VDC
2, D4	C16			6.8 UF, ±10%, 35 VDC
2, C4	C17			6.8 UF, ±10%, 35 VDC
2, C4	C18	CS13AG220K (1896954-182)		22 UF, ±10%, 50 VDC
2, C4	C19	CS13AG220K (1896954-182)		22 UF, ±10%, 50 VDC
2, E14	CR1	1N486B (1896966-003)	SEMICONDUCTOR DEVICE, MIL-S-19500	
2, E14	CR2			
2, E14	CR3			
2, E14	CR4			
2, C14	CR5			
2, C14	CR6			
2, C14	CR7			
2, C14	CR8			
3, F4	CR9			
3, F4	CR10			
3, F4	CR11			
3, F3	CR12			
3, F3	CR13			
3, C4	CR14			
3, B4	CR15			
3, B4	CR16			
3, C3	CR17			
3, C3	CR18			
2, G7	CR19	1N645 (1896966-004)		
2, G7	CR20	1N645 (1896966-004)		
3, E8	CR21	1N486B (1896966-003)		
	CR22	DELETED		
	CR23			
	CR24			
	CR25			
2, F7	CR26	1016374-001	SEMICONDUCTOR DEVICE	
2, F7	CR27	1015939-3	SEMICONDUCTOR DEVICE	
3, G2	DS1	(4) MS-25237-327	LAMP, INCANDESCENT	
3, D8	DS2	(4) MS-25237-327	LAMP, INCANDESCENT	
4, E5	E1	1015902-45	TERMINAL, LUG	
	E2			
	THRU			
	E10			
4, C6	F1	F02B250V3/4A(1897099-126)	FUSE, MIL-F-15160/02	.75A, 250 V
4, C6	F2	F02B250V3/4A(1897099-126)	FUSE, MIL-F-15160/02	.75A, 250V
4, C10	F3	F02A250V2A (1897099-011)		2A,
3, F10	F4	FC2A250V2A (1897099-011)		2A,
2, G10	F5	F02A250V 16A (1897099-004)		.125A,
3, G5	F6			.125A,
3, D5	F7			.125A,
2, E6	FL1	1016370-3	FILTER, LOW PASS	
2, B6	FL2	-3		
2, C6	FL3	-3		
2, D6	FL4	-4		
2, E6	FL5	-4		
	J1	MS3127E-24-61SX (1897056-612)	CONNECTOR, RECP	61 PIN
	J2	-61SY -613		
	J3	-61S -610		
	J4	-61SW -611		
	J5	1902261-011	SWITCH & CONNECTOR ASSY	66 PIN
	J6	-021		
	J7	-031		
	J8	-041		
	J9	-051		
	J10	-061		
	J11	-071		
	J12	-081		
	J13	1016379-105	CONNECTOR, RECP	31 PIN
	J14	-107		
	J15	-103		
	J16	-103		
	J17	1016323-001	POST, BINDING	
2, G1	J18	-002		
1, G12	J19	-001		
2, D12	J20	-002		
2, D12	J21	-001		
2, C12	J22	-001		
3, C5	J23	-002		
3, B5	J24	-001		
3, D5	J25	-002		
3, D5	J26	-001		
4, B6	J27	-002		
4, G5				

SYM	ZONE	DESCRIPTION

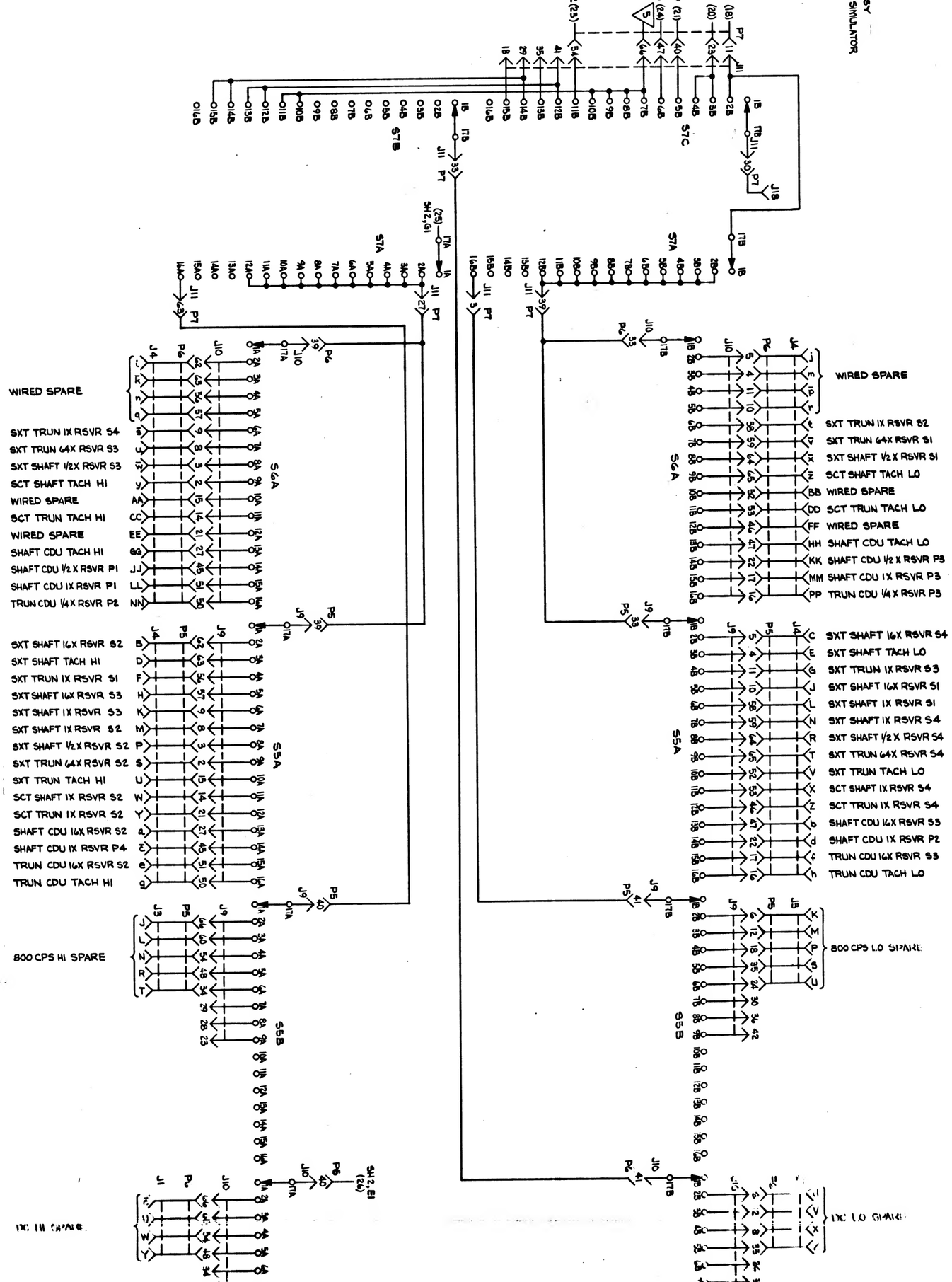
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — — + — —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
DO NOT SCALE THIS DRAWING	ACSP PN
MATERIAL —	DRAWN DATE
NEXT ASSY	CHECKED
USED ON	APPROVAL
CONTRACT AS9-49	APPROVAL
	MATERIAL
	RASA APPROVAL
	MT APPROVAL
	CODE IDENT NO 77974
	SCALE

1902313 REV LTR SH 1

F-3

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY
3. LAST NUMBER USED: ▽=5 ; ( ) = 28
4. LOGIC SYMBOLS ARE PER MIL-STD-806
5. SPECIAL ABBREVIATIONS AND CODES:
   a. SHEET & ZONE NUMBERS ARE ABBREVIATED SH_, —
   b. ⊕ REPRESENTS FEED THRU TERMINAL OR TERMINAL BOARD
6. DRAWINGS FOR REFERENCE:
   19C203-011 OPTICS CDU LOAD & SIGNAL SIMULATOR ASSY
   1902418 RUNNING LIST, OPTICS CDU LOAD & SIGNAL SIMULATOR
7. SIGNAL DESCRIPTIONS:
   ▽1 28 VDC PRIME POWER
   ▽2 28 VDC TRACKER POWER
   ▽3 TRACKER SHIELD GROUND
   ▽4 ENCODER SHIELD GROUND
   ▽5 0 VDC OPTICS



1902313 REV

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

POWER INPUTS A1D J13 · POWER INPUTS A2E J14 · POWER INPUTS A3C J15 · POWER INPUTS A4E J16

CR19 ING45 · C11 .5UF · CR20 ING45 · R31 30Ω · R30 2.5Ω · TB4B · CR26 · CR27 · RT7 34.8Ω · T18 · R76 6.2Ω · -6 6.55MH

-6 VDC · +12 VDC

PHOTOMETER SIGNAL LO/HI · TRACKER Y REFERENCE HI/LO · TRACKER PREAMP OUTPUT LO/HI · TRACKER X REFERENCE HI/LO

ST 1 A1C · ST 2 A1B · ST 3 A1A

FF 1 A3A · FF 2 A3B · FF 3 A4D · FF 4 A4B · FF 1 A4C · FF 2 A4A

1100 CPS · 550 CPS · 356 CPS 0 PH · 712 CPS 0 PH · 712 CPS π PH · 910 CPS 0 PH · 910 CPS π PH · 356 CPS π PH · 455 CPS 0 PH · 455 CPS π PH

R36 10K TB4C · R37 225K TB4D · R79 20K · R80 10K · FL5 · S10 · S14A/B · S13A/B · S12A/B · S11A/B · TB4E R32 287K, R33 280K, R34 274K, R35 287K

DRIVER 1 A2A · DRIVER 2 A2D · DRIVER 3 A2C · DRIVER 4 A2B

FL1 · FL2 · FL3 · FL4

R59 2K · R60 43K · C14 6.8UF · R58 1K · Q5 · R61 160K · R63 2K · R64 43K · C15 6.8UF · R62 1K · Q6 · R65 160K · R67 2K · R68 43K · C16 6.8UF · R66 1K · Q7 · R69 91K · R71 2.4K · R72 43K · C17 6.8K · R70 1K · Q8 · R73 75K · C18 22UF · R74 120Ω · TB6 · R78 2K

R81 1K · S9

J11 PT 65 G4 48 36 24 12 6 5 4 16 28 34 46 60 → 02A 03A 04A 05A 06A 07A 08A 09A 010A 011A 012A 013A 014A 015A 016A STC

J11 PT 32 → 08A 03A 04A 05A STB 06A 07A 08A 09A 010A 011A 012A 013A 014A 015A 016A

TRACKER AUTOMATIC GAIN CONTROL HI K LO m · STAR PRESENCE INPUT HI S LO T

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN · CHECKED · APPROVAL · NASA APPROVAL · MIT APPROVAL	OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM
MATERIAL	CONTRACT NAS9-497	CODE IDENT NO. 99974 · SIZE J2 · 1902313 · SCALE · SHEET 2 OF 4

1902313 REV L SH 2

F-3

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

POWER INPUTS A1D — J13 (L N R T h i k)
POWER INPUTS A2E — J14 (L h i k)
POWER INPUTS A3C — J15 (L h i k)
POWER INPUTS A4E — J16 (L h i k)

S-3, D10 (16) — R76 16.2Ω — L6 6.55MH — SH3, E13 (15) — T18

CR19 ING45, C11 .5μF, CR20 ING45 — TB4B — R31 30Ω, R30 2.5Ω

-6 VDC
+12 VDC
CR26
CR27
R77 34.8Ω

PHOTOMETER SIGNAL (LL LO, MM HI)
TRACKER Y REFERENCE (HI, LO)
TRACKER PREAMP OUTPUT (EE LO, FF HI)
TRACKER X REFERENCE (a HI, b LO) — J1

SH3, C7 (16) — RB1 1K — (17) SH3, C7
(24) SH1, F23
S-1, D22 (23)

P7 pins 65, 64, 48, 56, 24, 12, 6, 5, 4, 16, 28, 54, 46, 60 → 02A, 03A, 04A, 05A, 06A, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A
SH4, E4(2) — SH4, G6(10) — SH2, G9(22) — S7C

Y3 FREQ STD 1.200 CPS — ST 1 — A1C — J13 C
A3A: J15 D, S 1, H, F, T FF 1, C 0, K, J
1100 CPS
A3B: J15 N, S 1, P, S, T FF 2, C 0, U, T
550 CPS — R36 10K — TB4C — FL5 (C, IN, OUT) — S10 — TB4D — R37 225K

Y2 FREQ STD 1.24 CPS — ST 2 — A1B — J13 K, F
A4C: J16 D, S 1, H, F, T FF 1, C 0, K, J
A4D: J16 V, S 1, X, Y, T FF 3, C 0, a, Z
356 CPS 0 PH — J14 P — DRIVER 2 — A2D — J14 M — FL1
712 CPS 0 PH
712 CPS π PH
S14A, S14B — R32 287K
910 CPS 0 PH — J14 W — DRIVER 3 — A2C — J14 Z — FL4
910 CPS π PH
S13A, S13B — R33 280K
356 CPS π PH — S12A — J14 c — DRIVER 4 — A2B — J14 e — FL3
S12B — R34 274K
S11A, S11B — R35 287K — TB4E

A1A FREQ STD 820 CPS — ST 3 — J13 U, Z
A4A: J16 N, S 1, P, S, T FF 2, C 0, U, T
A4B: J16 b, S 1, Z, d, T FF 4, C 0, f
455 CPS 0 PH — J14 B — DRIVER 1 — A2A — J14 E — FL2
455 CPS π PH

R79 20K — R80 10K

R59 2K, R58 1K, R60 43K, C14 6.8UF, R61 160K — Q5
R63 2K, R62 1K, R64 43K, C15 6.8UF, R65 160K — Q6
R67 2K, R66 1K, R68 43K, C16 6.8UF, R69 91K — Q7
R71 2.4K, R72 43K, C17 6.8K, R70 1K, R73 75K, C19 22UF, C18 22UF, R74 120Ω — Q8
TB6

R78 2K

SH1, E23 (23) — S9

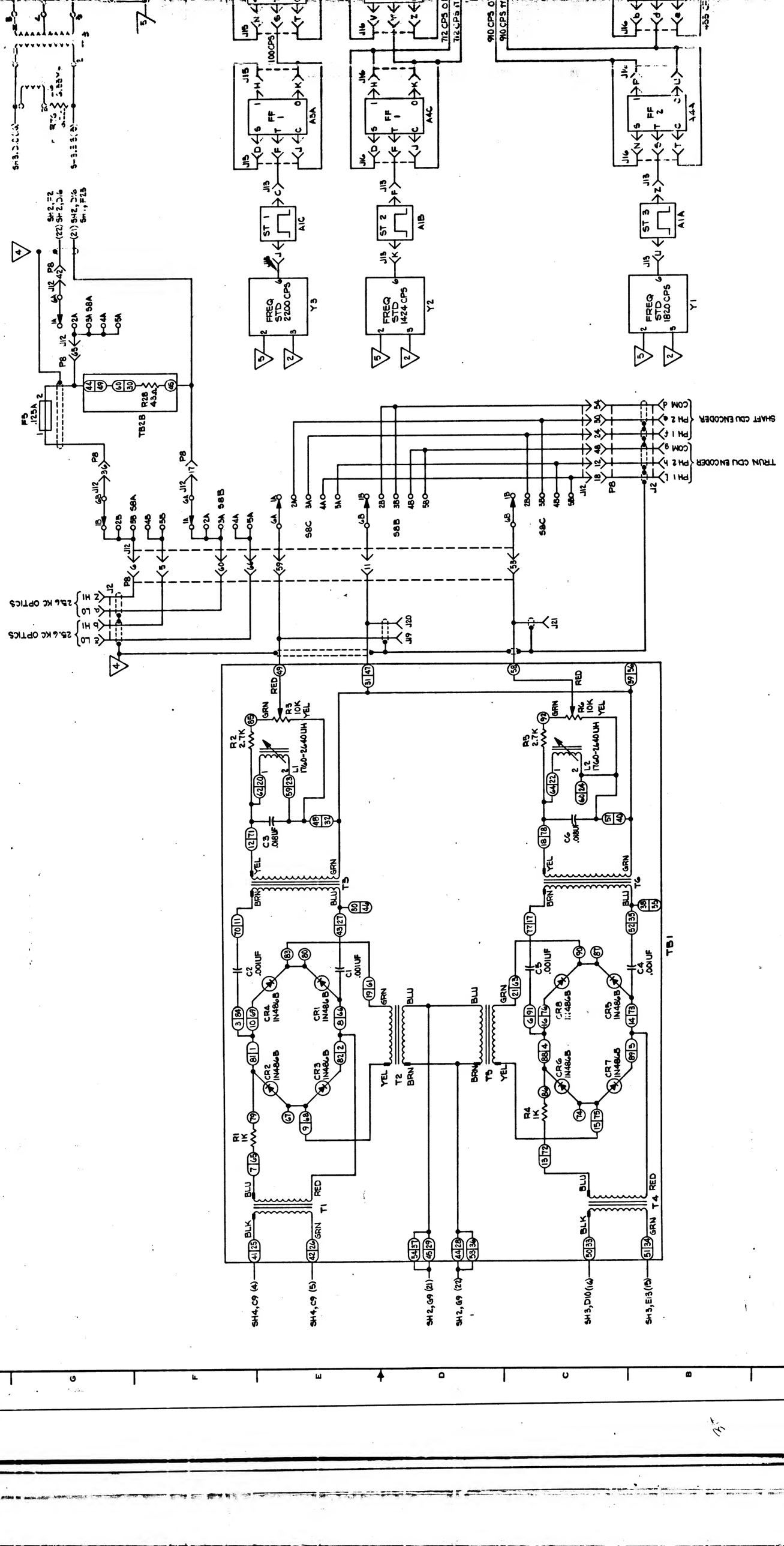
TRACKER AUTOMATIC GAIN CONTROL (HI K, LO M)
STAR PRESENCE INPUT (HI S, LO T)

J11 — P7 (26) SH1, D16

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	ACSP PN	OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM	
MATERIAL	DRAWN		
CONTRACT NAS 9-497	CHECKED	CODE IDENT NO. 99974	SIZE J
	APPROVAL	NASA APPROVAL	1902313
	APPROVAL	WIT APPROVAL	SHT 1 OF 4
	SCALE		

1902313 REV LTR SH 2

F-2


FREQ STD 2200 CPS
FREQ STD 1424 CPS
FREQ STD 1820 CPS
ST 1
ST 2
ST 3
FF 1
FF 2
100 CPS
712 CPS
910 CPS
SHAFT CDU ENCODER
TRUN CDU ENCODER
25.6 KC OPTICS
TB2B
TB1
R1 1K
R2 2.7K
R3 10K
R4 1K
R5 2.7K
R6 10K
C1 .001UF
C2 .001UF
C3 .08UF
C4 .001UF
C5 .001UF
C6 .08UF
CR1 IN486B
CR2 IN486B
CR3 IN486B
CR4 IN486B
CR5 IN486B
CR6 IN486B
CR7 IN486B
CR8 IN486B
T1
T2
T3
T4
T5
T6
SH4,C9 (4)
SH4,C9 (5)
SH2,G9 (21)
SH2,G9 (22)
SH3,D10 (14)
SH3,E13 (15)

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

PHASE NORMAL — PHASE REVERSED — (20) SH1, F23

DS1 — W W R R — A B C D

SH4,C5 (4)

SIA — 02A 03A 04A 05A 06A 07A 08A 09A 010A 011A 012A 013A 014A 015A 016A

S2A — 02B 03B 04B 05B 06B 07B 08B 09B 010B 011B 012B 013B 014B 015B 016B

P2 — 1A 17A J6 23 — 15 17B J6 30

SH3,E3(19) — P1 4 J5 1A 9A J5 22 P1 — SH4,D9(4) 11 02A; SH4,G10(2) 17 03A; SH3,F14(14) 29 04A — SIB

SH4,E4 (12) — P1 10 J5 1A 9A J5 P1 — 16 06A

SH4,E15(1) — P1 28 J5 1B 9B J5 29 P1 — SH4,D9 (7) 59 02B; SH4,E10(3) 53 03B; SH3,D14(13) 47 04B — SIB

SH4,G4(11) — P1 35 J5 1B 9B J5 P1 — 06B

SIA — 02B 03B 04B 05B 06B 07B 08B

CR21 IN4868 — 11 24 12 — TB4A — (10) SH4,G6

F6 .125A — P1 5 J5 1A 9A J5 34 P1 — 1 2

T7 — YEL 31 55; BRN; RED; GRN 30 56; BLU

CR9 IN4868 — 15 67 1 2
R10 22K — 60 22 8 7
CR12 IN4868 — 21 61
R7 22K — 64 16
CR11 IN4868 — 63 19 5 6
R9 22K — 20 62
CR10 IN4868 — 65 17 3 4
R8 22K — 18 64

T8 — BRN RED BLU; YEL GRN — 51 35; 53 33; 52 54 — (19) SH3,F8

TB3C — 54 32; 48 38; 50 36

CR13 IN4868 — 24
R11 10K — 57 49
R12 30K — 10
C7 0.1UF — 9 70 — 68 14

R17 10Ω — 42 — 27 37
C8 0.1UF — 44 43 — 13
Q2 — 12; 28 48; 27
R14 10K — 45 46
R13 200K — 25 59 — 39 47
R15 5MEG — 2 3 1
R14 6.2K — 69 11 — 24
Q1 — 1 2 3

F7 .125A — 1 2 — J24 J25

SH4,E15 (1) — 800~ 0 PH — G — 800~ π PH — DS2 — W W W W — A B C D

SW4 — C NC NO
SW3 — 1 C NC NO
SW2 — SH4,D9 (7) (6) C NC NO
SW1 — C NC NO — S1S

P1 6 J5 1A 9A J5 30 P1 — SH4,G8(9) 12 02A; SH4,D9(6) 18 03A; 24 04A — SIC

P1 66 J5 1B 9B J5 42 P1 — SH4,E8(8) 60 02B; SH4,D9(7) 54 03B; 48 04B — SIC

(18) SH2,G2 SH1,F23 — (17) SH2,F2

J22 — 34 57 YEL; BRN; RED; BLU 33 58 — J23

T9

CR14 IN4868 — 16 69 1 2
R21 22K — 62 23 8 7
R18 22K — 68 17
CR17 IN4868 — 22 63
CR16 IN4868 — 65 20 5 6
R19 22K — 19 66
R20 22K — 21 64
CR15 IN4868 — 67 18 3 4

T10 — YEL 37 54 GRN; BRN RED BLU; 36 55

TB2A — 35 56; 51 59; 42 50; 74 9; 72 12; 29 45

R23 10K — 10
C9 0.1UF — 25
CR18 IN4868 — 58 53 — 40 51
R22 30K — 39 52
Q4 — 1 3 2
R27 10K — 28
R26 5MEG — 2 3 1
R24 200K — 24 61 — 26 41
Q3 — 1 2 3
R25 6.2K — 70 15 — 73 11 — 27

3H

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	ACSP. PH	OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM
MATERIAL	DRAWN [illegible] 13 APR 65	
CONTRACT NAS 9-497	CHECKED [illegible] 13 APR 65	
	APPROVAL [illegible]	
	NASA APPROVAL [illegible]	CODE IDENT NO. 99974
	MIT APPROVAL [illegible]	SIZE J2 — 1902313 — SCALE — SHEET 3

1902313 REV SH 3

1902313

REVISIONS				
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

PHASE NORMAL — PHASE REVERSED

DS

SH4,C9 (4)

P2 J6 — 02A 03A 04A 05A 06A 07A 08A 09A 010A 011A 012A 013A 014A 015A 016A — S2A

1A 17A J6 P2 23 — SH3,E3(19) P1 J5 4 — 02A 03A 04A — S1A

SH4,E4(12) 16 — 05A 06A 07A 08A

SH4,E15(1) 28 — 15 9B J5 29 P1 — 02B 03B 04B 05B — S1A

SH4,G4(11) 35 — 06B 07B 08B

CR21 IN4868 — TB4A — (10) SH4,GG

FG .125A

P1 J5 1A 9A J5 36 P1 — SH4,D9(4) 11 — 02A 03A 04A — S1B

SH4,G10(2) 17 — 05A 06A 07A 08A

SH3,F14(14) 23 — 15 9B J5 41 P1 — SH4,D9(7) 59 — 02B 03B 04B — S1B

SH4,E10(3) 53 — 05B 06B 07B 08B

SH3,D14(13) 47

31 55 YEL BRN — RED — 30 56 GRN BLU — T7

CR9 IN4868 — R10 22K — R7 22K — CR12 IN4868 — R8 22K — CR11 IN4868 — R9 22K — CR10 IN4868

BRN RED BLU — T8 — YEL GRN — 51 35 — 53 33 — 52 34 — (19) SH3,F8

R17 10Ω — 42 — 29 57 — 23 45

C8 0.1UF — 44 43 — 13 — Q2 — 12 — R16 10K — 28 58 — 27

CR13 IN4868 — 48 38 — 24

R11 10K — 37 49

R12 30K — 10

C7 0.1UF — 9 70 — 68 14 — TB3C

23 — 25 — R13 200K — 39 47 — P15 5MEG

59 — Q1 — 69 11 — R14 6.2K — 26

54 32 — 50 36

F7 .125A — J24 J25

1B 17B J6 P2 30 — 02B 03B 04B 05B 06B 07B 08B 09B 010B 011B 012B 013B 014B 015B 016B — S2A

SH4,E15 (1) — 800~ 0 PH — 800~ π PH — G — DS2 — W W W W — A B C D

C NC SW4 NO — C NC SW3 NO — SH4,D9 (7) (6) — C NO SW2 — C NC SW1 NO — S1B

P1 J5 1B 9B J5 30 P1 — SH4,G8(9) 12 — 02A 03A 04A — S1C

SH4,D9(6) 18 — 05A 06A 07A 08A

SH4,E8(8) 24 — 15 9B J5 42 P1 — SH4,E8(8) 60 — 02B 03B 04B — S1C

SH4,D9(7) 54 — 05B 06B 07B 08B

48

(18) SH2,G2 SH1,F23 — (17) SH2,F2

J22 — J23

37 54 YEL — GRN 36 55 — T10 — BRN RED BLU

TB2A — 35 56 — 31 59 — 42 50

34 57 YEL — BRN — RED — 33 58 GRN BLU — T9

CR14 IN4868 — R21 22K — R18 22K — CR17 IN4868 — R19 22K — CR16 IN4868 — R20 22K — CR15 IN4868

74 9 — 10 — R23 10K — 72 12 — Q4 — 29 43 — R27 10K — 28 — R26 5MEG

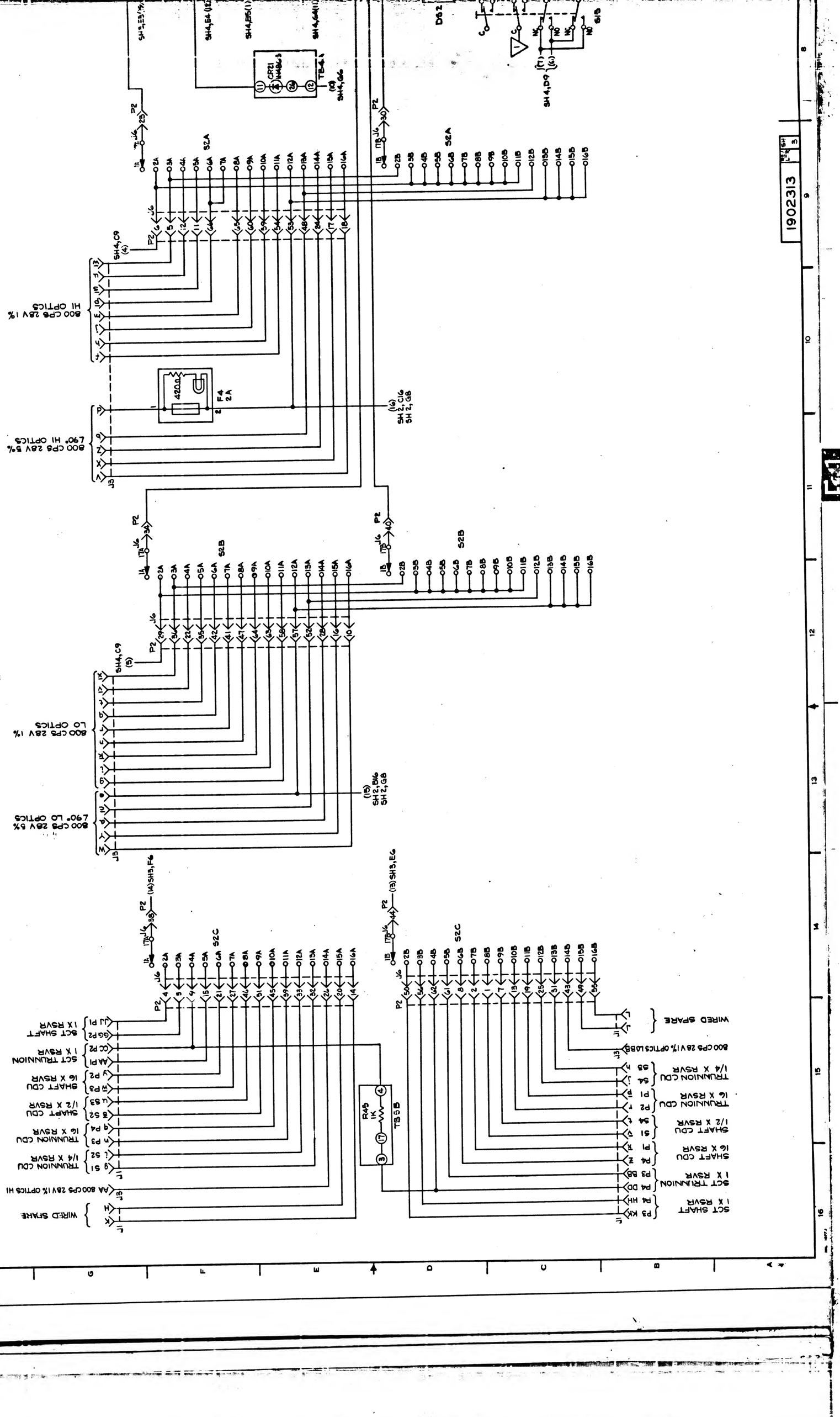
C9 0.1UF — 25 — R22 30K — 24 61 — 26 — R24 200K — 41

CR18 IN4868 — 38 53 — 40 51 — 39 52 — 70 15 — Q3 — 73 11 — R25 6.2K — 27

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	ACSP PN	OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM	
MATERIAL	DRAWN 2 JAN 68		
CONTRACT NAS 9-497	CHECKED 13 APR 68	CODE IDENT NO. 99974	SIZE J2 — 1902313
	APPROVED 3 APR 68	SCALE	SHEET
	APPROVAL		
	NASA APPROVAL		
	MIT APPROVAL		

1902313 REV LTR SH 3

1902313


800 CPS 28V 1% HI OPTICS
800 CPS 28V 5% 290° HI OPTICS
800 CPS 28V 1% LO OPTICS
800 CPS 28V 5% 290° LO OPTICS
AA 800 CPS 28V 1% OPTICS HI
800 CPS 28V 1% OPTICS LO
WIRED SPARE
SCT SHAFT 1 X RSVR
SCT TRUNNION 1 X RSVR
SHAFT CDU 16 X RSVR
TRUNNION CDU 16 X RSVR
SHAFT CDU 1/2 X RSVR
TRUNNION CDU 1/4 X RSVR
R45 1K
TB5B
F4 2A
420Ω
S2A
S2B
S2C
P2
J6
J5
J3
J1
1902313

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

J2 M WIRED SPARE

J8 P4 (9) SH3, D6

S4B: 02A 03A 04A 05A 06A 07A 08A 09A 010A 011A 012A 013A 014A 015A 016A

J8 P4 (8) SH3, C6

S4B: 02B 03B 04B 05B 06B 07B 08B 09B 010B 011B 012B 013B 014B 015B 016B

SH3, I6
SH3, I4
SH3, F8
(1)

SH3, D6
SH3, F6
SH3, C8
(6)

TT7

(4) SH3, G9; SH2, F16

(5) SH3, G12; SH2, E16

J8 P4 (10) SH3, E8 SH2, F2

S4A: 66 02A, 65 03A, 64 04A, 63 05A, 6 06A, 5 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

J8 P4 (1) SH4, E15

S4A: 4 02B, 3 03B, 2 04B, 1 05B, 55 06B, 56 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

J2 M STRUCTURE GROUND
J3 NN STRUCTURE GROUND
J1 PP 0 VDC OPTICS
J2 PP 0 VDC OPTICS
J3 M STRUCTURE GROUND
J1 P 0 VDC OPTICS
J2 R 0 VDC OPTICS
J3 NN STRUCTURE GROUND
J1 PP 0 VDC OPTICS

J27 P3 J7 (1) SH4, E15

S3C: 4 02A, 03A, 04A, 42 05A, 41 06A, 48 07A, 47 08A, 54 09A, 53 010A, 60 011A, 59 012A, 54 013A, 014A, 015A, 016A

J1 J7 P3 28 (11) SH3, E8

S3B: 24 02A, 23 03A, 30 04A, 29 05A, 06A, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

J1 J7 36

J1 J7 18

S3A: 6 02A, 5 03A, 12 04A, 11 05A, 06A, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

J1 J7 P3 22 (12) SH3, F8 SH2, G2

S3C: P3 J7 64 02B, SH4, C15(27) 58 03B, 52 04B, 46 05B, 06B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, P3 J7 53 014B, SH4, C15(28), 015B, 016B

J1 J7 35

S3B: 65 02B, 03B, 04B, 05B, 06B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

J1 J7 17

S3A: 66 02B, 03B, 04B, 05B, 06B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

F2 .75A 420Ω

F1 .75A 420Ω

J2 N WIRED SPARE

J1 N +28 VDC OPTICS TRACKER POWER

J26

3 4 E1 5

1 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	ACSP PN	OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM	
MATERIAL	DRAWN 18 FEB 65 DATE		
CONTRACT NAS9-457	CHECKED 13 MAR 65	CODE IDENT NO. 99974	SIZE J2
	APPROVED 13 MAR 65	SCALE	SHEET
	NASA APPROVAL		
	MIT APPROVAL		

1902313 REV -TR SH 4

1902313

3 4

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

(2) SH 3, F5

J8 P4 — 7 — (9) SH3, D6

J8: 02A, 03A, 04A, 05A, 06A S4B, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

P4: 59

(3) SH3, E6

J8 P4 — 13 — (8) SH3, C6

SH3, C6; SH3, E6; SH3, C8 (7); SH3, D6; SH3, F6; SH3, C8 (6)

J8: 02B, 03B, 04B, 05B, 06B S4B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

P4: 60

L5 4.95MH — RT5 13Ω — T17

P3 2A

420Ω

(4) SH3, G9; SH 2, F16

(5) SH3, G12; SH2, E16

J2: A, B

1902 CHT 2.1V 1% OX 11.5%

M WIRED SPARE — J2

J8 P4 — 17 — (10) SH3, E8 SH2, F2

J8: 66 02A, 65 03A, 64 04A, 63 05A, 6 06A S4A, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

P4: 5

MM STRUCTURE GROUND — J2
NN STRUCTURE GROUND — J2
PP 0 VDC OPTICS — J2
PP 0 VDC OPTICS — J3
M STRUCTURE GROUND — J1
P 0 VDC OPTICS — J1
R 0 VDC OPTICS — J1
NN STRUCTURE GROUND — J1
PP 0 VDC OPTICS — J1

J27

(1) SH4, E15

P3: 4

J7: 42 05A, 41 06A S3C, 48 07A, 47 08A, 54 09A, 53 010A, 60 011A, 59 012A, 54 013A, 014A, 015A, 016A

3, 4, 5

1777 E1

J7 P3 — 28 — (11) SH3, E8

J7: 02A, 03A, 04A, 05A, 06A S3B, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

J7 — 36

J7: 24 02A, 23 03A, 30 04A, 29 05A S3B, 06A, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

J7 — 8

J7: 6 02A, 5 03A, 12 04A, 11 05A S3A, 06A, 07A, 08A, 09A, 010A, 011A, 012A, 013A, 014A, 015A, 016A

J8 P4 — 8 — (1) SH4, E15

J8: 4 02B, 3 03B, 2 04B, 1 05B, 55 06B S4A, P4 56 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

J2 N

WIRED SPARE

P3 J7 — 22 — (12) SH3, F8 SH2, G2

SH4, C15 (27)

J7: 64 02B, 58 03B, 52 04B, 46 05B S3C, 06B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

P3 J7 — 33 — SH4, C15 (28)

2

1

F2 .75A — 420Ω — F1 .75A — 420Ω

J1 N — J26

+28 VDC OPTICS TRACKER POWER

J7 — 35

J7: 65 02B, 03B, 04B, 05B S3B, 06B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

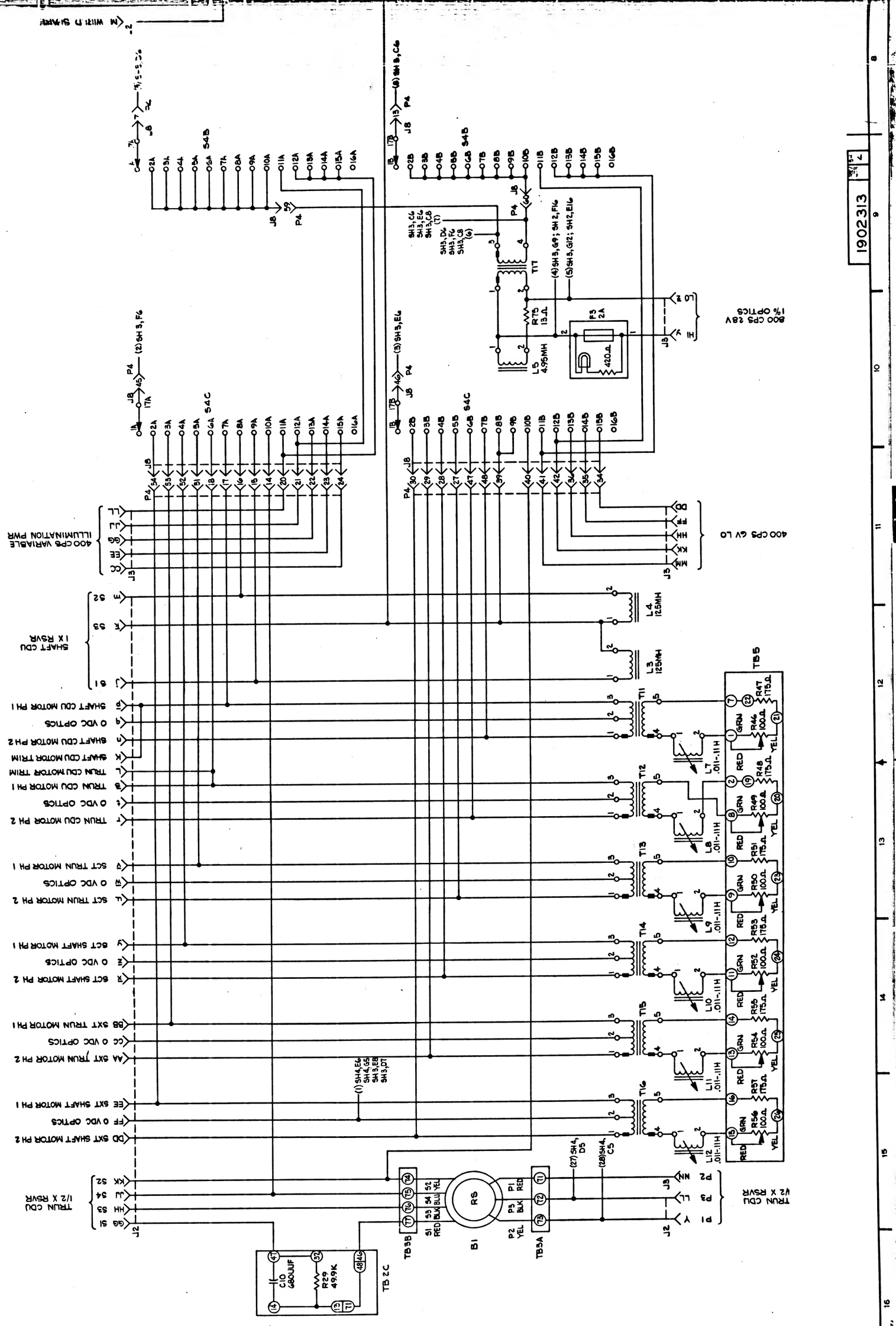
J7 — 17

J7: 66 02B, 03B, 04B, 05B S3A, 06B, 07B, 08B, 09B, 010B, 011B, 012B, 013B, 014B, 015B, 016B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING MATERIAL — CONTRACT NAS9-497	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN — DRAWN — DATE 18 FEB 66 CHECKED — APPROVAL — APPROVAL — NASA APPROVAL — MIT APPROVAL —	MANNED SPACECRAFT CENTER HOUSTON, TEXAS OPTICS CDU LOAD AND SIGNAL SIMULATOR SCHEMATIC DIAGRAM CODE IDENT NO. 99974 SIZE J2 1902313 SCALE — SHEET

1902313 REV LTR SH 4

1902313


800 CPS 28V
1% OPTICS
400 CPS 6V LO
400 CPS VARIABLE ILLUMINATION PWR
SHAFT CDU 1X RSVR
TRUN CDU 1/2 X RSVR
TB5
TB3B
TB3A
TB2C
B1
RS
T11
T12
T13
T14
T15
T16
T17
L3 125MH
L4 125MH
L5 4.95MH
L7 .011-.11H
L8 .011-.11H
L9 .011-.11H
L10 .011-.11H
L11 .011-.11H
L12 .011-.11H
R75 13.3Ω
F3 2A
420Ω
R46 100Ω
R47 175Ω
R48 175Ω
R49 100Ω
R50 100Ω
R51 175Ω
R52 100Ω
R53 175Ω
R54 100Ω
R55 175Ω
R56 100Ω
R57 175Ω
C10 680UUF
R29 499K
S4B
S4C
J8
P4
J13
J12
J3
(1) SH4,E6 SH4,G5 SH3,E8 SH3,D7
(2) SH 3,F6
(3) SH3,E6
(4) SH3,G9; SH 2,F16
(5) SH3,G12; SH2,E16
(6) SH 3,C6
(27) SH4, D5
(28) SH4, C5

APPLICATION		REVISIONS 17836			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902271-011	1902022-011	A	UPGRADE FOR CLASS A RELEASE	9 MAR 65	J.K. UK

REV							
SHEET							
REV STATUS	REV	A	A	A	A	A	A
OF SHEETS	SHEET	1	2	3	4	5	6	7

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN WEISSERT DATE 26-JAN-65
CHECKED W Diehl 11 FEB '65
APPROVAL W Williams 15 FEB 65
APPROVAL W. Watson 3-25-65

NASA APPROVAL 28-MAR-65
MIT APPROVAL 26-MAR-65

CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST A-A

CODE IDENT NO.	SIZE		REV
		1902315	A

SCALE —

SHEET 1 OF 7

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	DOES NOT APPLY
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 3 AND 4, OR ITEM 5

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902315-001	WIRE, BUS, QQ-W-343, TYPE S, COATED (ES110-1) 24AWG, 6.47 INCHES TOTAL LENGTH
	2	1	1902315-002	WIRE, ND1002181 TYPE 1, CLASS 1, 24AWG WHITE 67.08 INCHES TOTAL LENGTH
	3	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	4	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	5	AI	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	2	2.38	P1-A					.20	YES			
			TERM.2					.30	YES			
AA 2	2	2.50	P1-B					.20	YES			
			TERM.3					.30	YES			
AA 3	2	1.62	K2-6					.30	YES			
			TERM.5					.30	YES			
AA 4	2	2.85	P1-D					.20	YES			
			K2-7					.30	YES			
AA 5	2	1.82	TERM.21					.30	YES			
			TERM.30					.30	YES			
AA 6	2	2.12	TERM.10					.30	YES			
			TERM.6					.30	YES			
AA 7	1	.62	TERM.15									
			TERM.14									
AA 8	2	1.82	TERM.33					.30	YES			
			TERM.35					.30	YES			
AA 10	1	1.12	TERM.5									
			TERM.4									
AA 11	2	2.50	P1-Y					.20	YES			
			TERM.36					.30	YES			
AA 12	1	1.62	TERM.4									
			TERM.6									
AA 13	2	1.50	K2-6					.30	YES			
			TERM.36					.30	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 14	1	.62	TERM.9									
			TERM.12									
AA 15	2	1.30	TERM.12					.30	YES			
			TERM.19					.30	YES			
AA 16	2	2.20	TERM.20					.30	YES			
			TERM.22					.30	YES			
AA 17	1	1.25	TERM.22									
			TERM.28									
AA 18	2	2.25	TERM.14					.30	YES			
			TERM.29					.30	YES			
AA 19	2	2.50	TERM.29					.30	YES			
			TERM.32					.30	YES			
AA 20	2	1.82	TERM.31					.30	YES			
			TERM.25					.30	YES			
AA 21	2	2.25	P1-X					.20	YES			
			K1-1					.30	YES			
AA 22	2	1.50	K1-1					.30	YES			
			K1-8					.30	YES			
AA 23	2	2.50	P1-Z					.20	YES			
			K1-4					.30	YES			
AA 24	2	3.25	P1-E					.20	YES			
			K1-3					.30	YES			
AA 25	2	2.25	P1-H					.20	YES			
			K2-1					.30	YES			

WIRE LIST AA 1902315 #A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 26	2	3.12	P1-F					.30	YES			
			K1-5					.30	YES			
AA 27	2	1.50	K1-5					.30	YES			
			K1-7					.30	YES			
AA 28	2	1.85	K1-7					.30	YES			
			TERM.18					.30	YES			
AA 29	2	2.30	TERM.18					.30	YES			
			TERM.37					.30	YES			
AA 30	1	.62	TERM.26									
			TERM.23									
AA 31	1	.62	TERM.23									
			TERM.24									
AA 32	2	2.25	TERM.7					.30	YES			
			TERM.19					.30	YES			
AA 33	2	1.25	TERM.37					.30	YES			
			TERM.27					.30	YES			
AA 34	2	2.62	P1-C					.20	YES			
			K2-3					.30	YES			
AA 35	2	1.82	TERM.13					.30	YES			
			TERM.16					.30	YES			
AA 36	2	2.82	K1-8					.30	YES			
			TERM.38					.30	YES			
AA 37	2	4.12	TERM.38					.30	YES			
			TERM.15					.30	YES			

MIL 2084 4-63

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902315
SCALE - NONE	REV LTR #A	SHEET 6 OF 7

WIRE LIST AA 1902315 #A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 38	2	2.00	TERM. 1					.30	YES			
			TERM. 8					.30	YES			
AA 39	1	1.63	P1-J					.20	YES			
			K2-2					.30	YES			
AA 40	1	2.00	P1-K					.20	YES			
			K2-5					.30	YES			

MIL 2084 4-63

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902315
SCALE - NONE	REV LTR #A	SHEET 7 OF 7

APOLLO G&N Specification
PS1902326 A
Original Issue Date: MAR 26 1965
Release Authority: TDRR 17839
Class A Release

PROCUREMENT SPECIFICATION

FOR

AMPLIFIER ASSEMBLY, BAND PASS

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3-24-65	A	17839	ALL	WR	Hoar

This specification consists of page 1 to 8 inclusive.

APPROVALS	NASA/MSC	MIT/IL	3-25-65	ACSP

4.2.2 Amplifier Characteristics Test. With 30 vdc applied to terminals 15 (+) and 11 (-), the input signal applied through a 2.5K ±10% resistor to terminals 88 (Hi) and 87 (Lo), and the ac output measured at terminals 13 (Hi) and 1 (Lo), and a 0.0051 μf ±10% capacitor across the ac output the amplifier characteristics tests shall be performed as follows:

4.2.2.1 Saturation Test. With an input signal of 35±1 mv rms, 550±1 cps, the amplifier, as observed at the ac output shall not saturate.

4.2.2.2 Gain Test. With an input signal of 25±5 mv rms, 550±1 cps, the gain, as measured at the ac output shall be 100 V/V ±5% (40 db)."

4.2.2.3 Gain Linearity Test. With an input signal frequency of 550±1 cps, the gain, as measured at the ac output, shall be within ±2% of that measured in 4.2.2.2 with input signal voltages of 5±1 mv rms, and 35±1 mv rms.

4.2.2.4 Band Width Test. With an input signal voltage of 25±5 mv rms, the ac gains at 530 ±1 cps, and at 570 ±1 cps shall be less than 71 V/V ±5% (37 db), the ac gains at 1650 cps ±10% and at 200 cps ±10% shall be less than 18 V/V ±5% (25 db), and the gains at 50 kc ±10% and at 10 cps ±10% shall be less than 1 V/V ±5% (0 db).

4.2.2.5 DC Output Test. With an input signal of 25±5 mv rms, 550 ±1 cps, the dc output signal as measured at terminals 2 (+) and terminal 3 (-) shall be greater than 1.5 vdc.

4.3 QUALIFICATION AND REQUALIFICATION TESTS. Qualification and requalification tests shall consist of the tests specified in 4.2.

5. PREPARATION FOR DELIVERY

5.1 PRESERVATION AND PACKAGING. The amplifier shall be preserved and packaged in accordance with Specification MIL-E-17555, Level C.

5.1.1 Level C (Minimum Military Packaging). Level C packaging is that which will afford protection against damage during direct shipment from the supply source to the first receiving activity for immediate use. This level, in general, will conform to applicable carrier rules and regulations of this level.

5.1.1.1 Cleaning. Cleaning for Level C preservation and packaging shall be in accordance with Method C-1 of Specification MIL-P-116.

5.1.1.2 Unit Protection. The amplifier shall be individually afforded unit protection in accordance with Method III of Specification MIL-P-116. Items not used within the time period specified must either be preserved or repackaged in accordance with Level A or Level B requirements if storage beyond an additional year is anticipated.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
3. TIGHTEN ITEM (5) TO 5.6-6.1 LB/IN.
4. BOND ITEMS (12), (40) AND (41) TO ITEM (1) PER ND 1002203.
5. MATING SURFACES OF ITEMS (40) AND (42) TO BE COATED WITH ITEM (46). REMOVE EXCESS GREASE.
6. HEAT SINK CAP LOCKING TORQUE = 25-30 OZ./IN.
7. BEFORE SOLDERING, ASSEMBLE ITEMS (40) AND (42) AND BOND ITEM (43) TO ITEM (42) PER ND 1002203.
8. USE INSULATING SLEEVING, ITEM (45) AS REQUIRED ON LEADS OF ITEMS (40) AND (41).
9. SOLDER PER MIL-S-6872 (ES2305-1) USING ITEMS (47) AND (48), OR (49).
10. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
11. SPOT TIE LEADS FROM THE RESISTORS, ITEM 9, TO THE ADJACENT BRACKET IN SUCH A WAY AS TO AVOID INTERFERENCE WITH THE TERMINAL, ITEM 2.

REVISIONS 17839

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
F		UPGRADED TO CLASS A PER TDRR 17839		26 Aug 65	

					ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
		1		50	1902416		WIRE LIST DD
		AR		49	SN60 WRAP		SOLDER QQ-S-571 (ES2175-3)
		AR		48	MIL-F-14256 TYPE A OR W		FLUX (ES2798)
		AR		47	SN60WS		SOLDER QQ-S-571 (ES2175-1)
		AR		46	MIL-I-8660		SILICON GREASE (ES 2311)
SEE NOTE 2		AR		45	1006776-022		INSULATION SLEEVING, ELEC
SEE NOTE 2		2		44	1010490-337		INSULATION SLEEVING, ELEC
		2		43	1015870-001		INSULATOR DISC
		2		42	1015872-001		HEATSINK, TWO PIECE
		3		41	1015935-001		TRANSISTOR 2N930
		3		40	1015928-001		TRANSISTOR 2N2193
		1		39	RN60B4993F		(1896977-548) RESISTOR MIL-R-10509
		2		38	RN60B2002F		(1896977-414) RESISTOR MIL-R-10509
		3		37	RN60B1002F		(1896977-385) RESISTOR MIL-R-10509
		1		36	RN60B3651F		(1896977-343) RESISTOR MIL-R-10509
		1		35	RN60B4990F		(1896977-260) RESISTOR MIL-R-10509
		2		34	RN60B3920F		(1896977-250) RESISTOR MIL-R-10509
		1		33	RC32GF102J		(1896953-063) RESISTOR MIL-R-11
		1		32	RC32GF821J		(1896953-061)
		1		31	RC20GF203J		(1896952-080)
		1		30	RC20GF103J		(1896952-073)
		1		29	RC20GF622J		(1896952-068)
		1		28	RC20GF392J		(1896952-063)
		1		27	RC20GF332J		(1896952-061)
		2		26	RC20GF272J		(1896952-059)
		1		25	RC20GF202J		(1896952-056)
		1		24	RC20GF162J		(1896952-054)
		1		23	RC20GF132J		(1896952-052)
		1		22	RC20GF510J		(1896952-018) RESISTOR MIL-R-11
SEE NOTE 2		4		21	IN459		(1896966-291) DIODE MIL-S-19500
		1		20	1015941-20		SEMICONDUCTOR DEVICE, DIODE
		1		19	1015941-13		SEMICONDUCTOR DEVICE, DIODE
SEE NOTE 2		1		18	CTM472VBK		(1896957-030) CAPACITOR MIL-C-27287
		1		17	CTM223VAK		(1896957-007) CAPACITOR MIL-C-27287
		1		16	CTM103VAK		(1896957-003) CAPACITOR MIL-C-27287
SEE NOTE 2		6		15	CS13AF6R8K		(1896956-141) CAPACITOR MIL-C-26655
		1		14	CS13AF1R5K		(1896956-129) CAPACITOR MIL-C-26655
SEE NOTE 2		1		13	CS13AF2R5K		(1896956-122) CAPACITOR MIL-C-26655
		2		12	1015927-017		CAPACITOR, FIXED
SEE NOTE 2		2		11	AN340C4		(1896988-041) NUT PLAIN, HEX
SEE NOTE 2		1		10	1015841-8		INDUCTOR, VARIABLE
		2		9	1015989-009		RESISTOR, VARIABLE
		2		8	1006783-98		SCREW, BUTTON HD HEX SOCKET
SEE NOTE 2		2		7	1016151-002		NUT, SELF LOCKING
		1		6	MS35431-1		TERMINAL LUG
SEE NOTE 2		6		5	1006783-18		SCREW, BUTTON HD, HEX SOCKET
SEE NOTE 2		8		4	AN960-C4		(1897006-024) WASHER, FLAT
		8		3	MS35338-78		WASHER, LOCK, SPLIT
		4		2	SE190D01		(1896962-002) TERMINAL-MIL-T-55155
		1		1	1902353		TERMINAL BOARD (INSEP)

QUANTITY REQUIRED — EFFEC TIVITY — LIST OF PARTS AND MATERIALS

F	F
SHEET 1	SHEET 2

REVISION STATUS OF SHEETS

1901181-011	1901981-011	011
NEXT ASSY	USED ON	APPLICABLE DASH NO.

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWN L. SOMMER 22 JAN 65 DATE

CHECKED E. FOSTER 22 JAN 65

APPROVAL J. M. DAVIS 23 JAN 65

APPROVAL [signature] 3-26-65

NASA APPROVAL [signature] 3-26-65

MIT APPROVAL [signature]

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

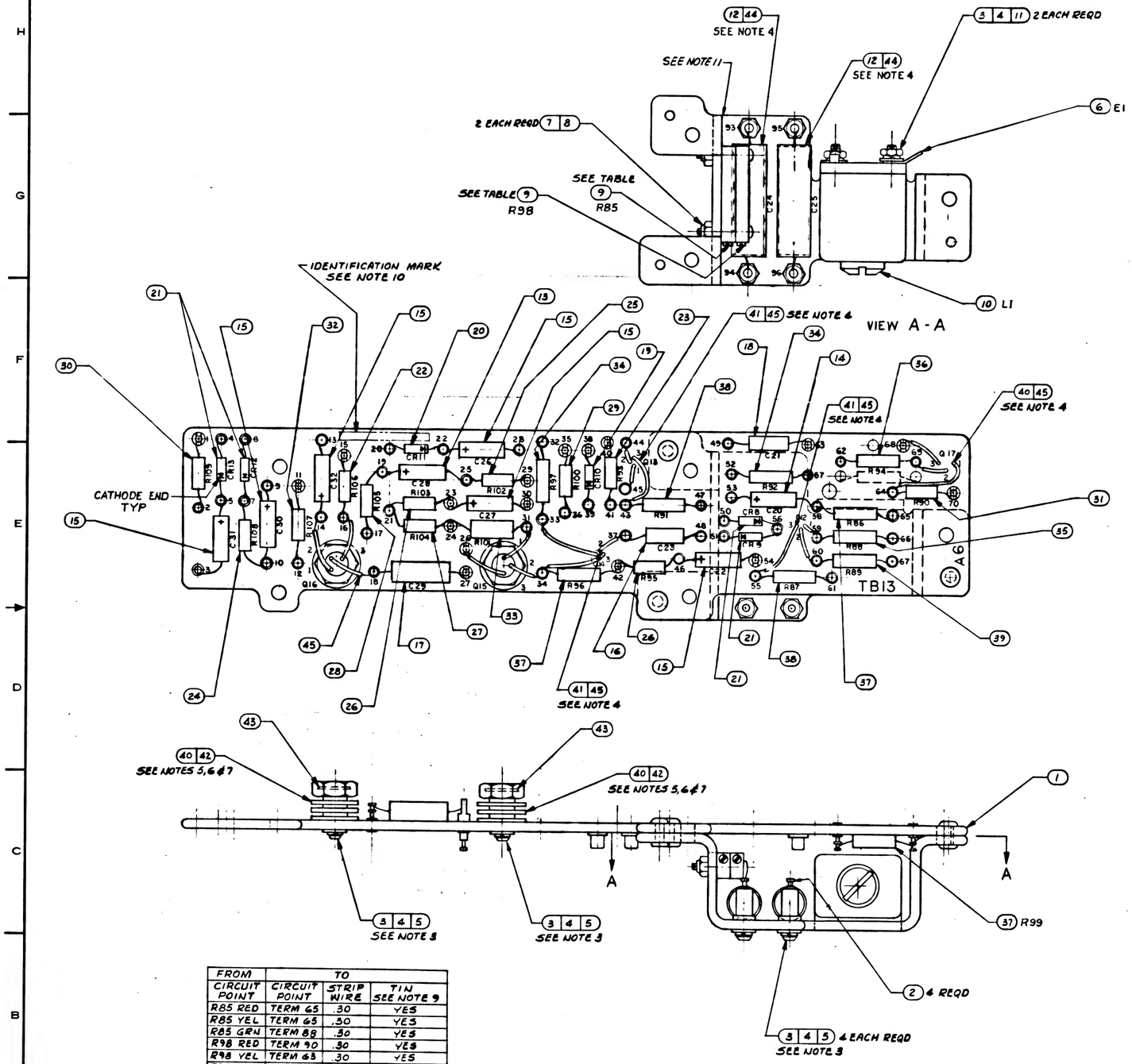
AMPLIFIER, BAND PASS ASSEMBLY

CODE IDENT NO. — SIZE E — 1902326

SCALE — SHEET 1 OF 2

1902326

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
F		UPGRADED TO CLASS A PER TDRR 17839		2-28-68	



FROM CIRCUIT POINT	TO CIRCUIT POINT	STRIP WIRE	TIN SEE NOTE 9
R85 RED	TERM 65	.30	YES
R85 YEL	TERM 65	.30	YES
R85 GRN	TERM 88	.30	YES
R98 RED	TERM 90	.30	YES
R98 YEL	TERM 63	.30	YES
R98 GRN	TERM 90	.30	YES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
MATERIAL —	ACSP PN	AMPLIFIER, BAND PASS ASSEMBLY
CONTRACT NAS 9-497	DRAWN 12 FEB 68 DATE	
	CHECKED 25 FEB 68	
	APPROVED 2-27-68	
	NASA APPROVAL	CODE IDENT NO
	MIT APPROVAL	SIZE E
	SCALE 2:1	1902326
		SHEET 2 OF 2

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		B	UPGRADED FOR CLASS A RELEASE PER TDAR	23 NOV 65	JNV

REV																								
SHEET																								
REV STATUS	REV.	B	B	B	B	B	B	B	B	B	B	B												
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11												

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. Mallaar DATE 25 JAN 65
CHECKED R. Mamary 15 FEB 65
APPROVAL R. W. Sweet 15 Feb 65
APPROVAL J. M. Watson 3-25-65

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST FOR TEST POINT ADAPTER RETROFIT KIT (8102044)

CODE IDENT NO.	SIZE		REV
		1902334	B

SCALE —

SHEET 1 OF 11

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	DOES NOT APPLY
2	MARK LEAD IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
3	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
4	SPIRALLING OF THE MARKING IS ALLOWED.
5	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
6	MARK PART NUMBERS (1901988), (1902342), (1902343) ~~AND~~ (1902344), AND (1902382), ONE PART NUMBER PER BAND, ~~ALONG WITH REVISION LETTERS TO BE ASSIGNED ON ITEM 3~~ PER MIL-STD-130 (ES267)
7	SEE NOTE 5 AND 6.
8	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902334-001	WIRE ND1002181, CLASS 1, TYPE 1, 24AWG WHT 102 FT. 4 INCHES TOTAL LENGTH
2	1	1902334-002	WIRE BUS, 24AWG, QQ-W-343 TYPE S (ES110-1) 15 INCHES TOTAL LENGTH
7 3	~~54~~	1016128-001	BAND, IDENTIFICATION

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 37	1	12.00										
AA 38	1	12.00										
AA 39	1	12.00										
AA 40	1	12.00										
AA 60	1	10.00										
AA 61	1	12.00										
AA 62	1	12.00										
AA 88	1	20.00										
AA 89	1	20.00										
AA 90	1	20.00										
AA 91	1	20.00										
AA 151	1	10.00										

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 152	1	10.00										
AA 153	1	10.00										
AA 154	1	10.00										
AA 155	1	15.00										
AA 156	1	15.00										
AA 157	1	15.00										
AA 158	1	15.00										
AA 159	1	10.00										
AA 160	1	10.00										
AA 161	1	10.00										
AA 162	1	10.00										
AA 163	1	15.00										

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 164	1	15.00										
AA 165	1	10.00										
AA 166	1	10.00										
AA 167	1	10.00										
AA 168	1	10.00										
BB 64	2	3.00										
BB 65	1	3.00										
BB 66	2	3.00										
BB 67	2	3.00										
BB 68	2	3.00										
BB 69	2	3.00										
H 19	1	16.00										

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
H 20	1	16.00										
H 21	1	16.00										
H 22	1	16.00										
H 23	1	16.00										
H 24	1	16.00										
H 25	1	16.00										
H 26	1	16.00										
H 27	1	16.00										
H 28	1	16.00										
H 29	1	16.00										
H 30	1	16.00										
J 15	1	16.00										

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
J 16	1	16.00										
J 17	1	16.00										
J 18	1	16.00										
J 19	1	16.00										
J 20	1	16.00										
J 21	1	16.00										
J 22	1	16.00										
J 23	1	16.00										
J 24	1	16.00										
K 27	1	16.00										
K 28	1	16.00										
K 29	1	16.00										

WIRE LIST 1902334 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
K 30	1	16.00										
L 96	1	25.00										
L 97	1	25.00										
L 98	1	25.00										
L 99	1	25.00										
L 100	1	25.00										
L 101	1	25.00										
L 102	1	25.00										
L 103	1	25.00										
L 104	1	25.00										
L 105	1	25.00										
L 106	1	25.00										

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902334
SCALE - NONE	REV LTR X B	SHEET 10 OF 11

WIRE LIST 1902334 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 107	1	25.00										
L 108	1	25.00										
L 109	1	25.00										
L 110	1	20.00										
L 111	1	25.00										
L 112	1	30.00										

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902334
SCALE - NONE	REV LTR X B	SHEET 11 OF 11

17840

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	C	UPGRADED FOR CLASS A RELEASE	20 MAR 65	JWP

REV STATUS OF SHEETS	REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14		

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 3 FEB 65 DATE

CHECKED C. Snyder 3 FEB 65

APPROVAL 3 Feb 65

APPROVAL 2-25-65

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL W94

CODE IDENT NO.	SIZE		REV
		1902337	C

SCALE —

SHEET 1 OF 14

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER NC 1002206
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1½ INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267). .12 HIGH, COLOR WHITE
8	FASTEN MARKER SECURELY WITH ITEM 22. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
9	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPS PER ND1002019 CENTRALIZE
12	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
14	ITEMS 8 AND 9 FURNISHED WITH ITEMS 6 AND 7.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH LETTER L L - WHITE WITH BLUE TRACER R - WHITE WITH LETTER R R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER
16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES
17	SEAL ZIPPER TUBING PER ND1002153.
18	SERIALIZE PER ND 1002023
19	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
20	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM THE TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902337-001	WIRE ND 1002181, TYPE 1, CLASS 1, WHT NO. 22AWG 6 FEET TOTAL LENGTH
	2	1	1902337-002	WIRE ND 1002181, TYPE 1, CLASS 1, WHT NO. 20AWG 55 FEET 6 INCHES TOTAL LENGTH
	3	1	1902337-003	WIRE ND 1002181, TYPE 2, CLASS 4, WHT. JKT., NO. 20AWG, WHT/BLU WHT/RED 470 FT TOTAL LENGTH
	4	1	1902337-004	WIRE ND 1002181, TYPE 3, CLASS 4, WHT JKT, NO. 20AWG, WHT/BLU, WHT/RED, WHT/YEL 36 FEET TOTAL LENGTH
	5	1	1902337-005	WIRE COAXIAL MIL-C-17/69A, RG 188A/U 36 FEET TOTAL LENGTH
	6	1	1902337-006	WIRE ND 1002181, TYPE 2, CLASS 1, T2 NO. 20AWG WHT WITH LETTER L, WHITE WITH LETTER R 18 FEET TOTAL LENGTH
	7	1	MS3126F24-61PY	(1897047-613) CONN. ELEC PIN CRIMP TYPE
	8	42	MS3193A-20A	(1896877-020) CONTACT ELEC SOCKET
	9	43	MS3192A-20A	1896855-020) CONTACT ELEC PIN
10	10	4	1000243- 4	FERRULE ELEC COND
10	11	4	1000242- 4	FERRULE ELEC COND
10	12	15	1000243- 14	FERRULE ELEC COND
10	13	15	1000242- 12	FERRULE ELEC COND
10	14	2	1000243- 15	FERRULE ELEC COND

SEE NOTE NUMBER	ITEM	QTY	LIST OF MATERIALS PART NO.	DESCRIPTION
10	15	2	1000242- 16	FERRULE ELEC COND
10	16	15	1010490-194	INSULATION SLEEVING
10	17	13	1010490-196	INSULATION SLEEVING
10	18	1	1016128-011	BAND IDENTIFICATION
10	19	2	1016128-041	BAND IDENTIFICATION
10	20	4	1016006-001	SPLICE REDUCER
10	21	4	1010490-228	INSULATION SLEEVING
13	22	AR	1012507-004	TAPE, LACING AND TYING
	23	1	1902337-007	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE 1 IN. DIA. 18 FT. TOT. LENGTH
	24	1	MS3126F24-61SZ	(1897048-614) CONN ELEC SOCKET CRIMP TYPE
10	25	4	1010490-198	INSULATION SLEEVING

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			2.30 2.30	2.00 2.00				4	A 16, 14, 15 A 17	
A	1A	1	SHLD A1 E1					.37 NO .37 NO				
A	1L		P1-E P2-E					.22 NO .22 NO			9 8	
A	1R		P1-D P2-D					.22 NO .22 NO			9 8	
A	1Y		P1-F P2-F					.22 NO .22 NO			9 8	
A	2	3			2.30 2.30	2.00 2.00				4	A 16, 12, 13 A 17	
A	2A	1	SHLD A2 E1					.37 NO .37 NO				
A	2L		P1-H P2-H					.22 NO .22 NO			9 8	
A	2R		P1-G P2-G					.22 NO .22 NO			9 8	
A	3	3			2.30 2.30	2.00 2.00				4	A 16, 12, 13 A 17,	
A	3A	1	SHLD A3 E1					.37 NO .37 NO				
A	3L		P1-K P2-K					.22 NO .22 NO			9 8	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3R		P1-J P2-J					.22 NO .22 NO			9 8	
A	4	3			2.30 2.30	2.00 2.00				4	A 16, 12, 13 A 16, 12, 13	
A	4A	1	SHLD A4 P1-P					.37 NO .22 NO			9	
A	4B	1	P2-P SHLD A4					.22 NO .37 NO			8	
A	4L		P1-M P2-M					.22 NO .22 NO			9 8	
A	4R		P1-L P2-L					.22 NO .22 NO			9 8	
A	5	4			2.80 2.80	2.50 2.50				4	A 16, 14, 15 A 17	
A	5A	1	SHLD A5 E1					.37 NO .37 NO				
A	5L		P1-U P2-U					.22 NO .22 NO			9 8	
A	5R		P1-T P2-T					.22 NO .22 NO			9 8	
A	5Y		P1-V P2-V					.22 NO .22 NO			9 8	
A	6	6										

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P1-X P2-X					.22 NO .22 NO			9 8	
A	6R		P1-W P2-W					.22 NO .22 NO			9 8	
A	7	5			2.80 2.80	2.50 2.50				4 4	A 25, 10, 11 A 25, 10, 11	
A	7A	1	SHLD A7 P1-C*					.37 NO .22 NO			9	
A	7B	1	P2-C* SHLD A7					.22 NO .37 NO			8	
A	7E		P1-B* P2-B*					.22 NO .22 NO			9 8	
A	8	3			2.80 2.80	2.50 2.50					A 16, 12, 13 A 17, 12, 13	
A	8A	1	SHLD A8 P1-F*					.37 NO .22 NO			9	
A	8B	1	P2-F* SHLD A8					.22 NO .37 NO			8	
A	8L		P1-E* P2-E*					.22 NO .22 NO			9 8	
A	8R		P1-D* P2-D*					.22 NO .22 NO			9 8	
A	9	3			2.80 2.80	2.50 2.50				4	A 16, 13, 12 A 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 9A	1		SHLD A9 E2					.37 .37	NO NO			
A 9L			P1-I• P2-I•					.22 .22	NO NO		9 8	
A 9R			P1-H• P2-H•					.22 .22	NO NO		9 8	
A 10	3				3.30 3.30	3.00 3.00				4	A 16, 12, 13 A 17	
A 10A	1		SHLD A10 E2					.37 .37	NO NO			
A 10L			P1-K• P2-K•					.22 .22	NO NO		9 8	
A 10R			P1-J• P2-J•					.22 .22	NO NO		9 8	
A 11	3				3.30 3.30	3.00 3.00				4	A 16, 12, 13 A 17, 12, 13	
A 11A	1		SHLD A11 P1-MM					.37 .22	NO NO		9	
A 11B	1		P2-MM SHLD A11					.22 .37	NO NO		8	
A 11L			P1-N• P2-N•					.22 .22	NO NO		9 8	
A 11R			P1-M• P2-M•					.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902337
SCALE - NONE	REV LTR X C	SHEET 10 OF 14

MIL 2086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 12	5				3.30 3.30	3.00 3.00				4	A 25, 10, 11 A 25, 10, 11	
A 12A	1		SHLD A12 P1-S					.37 .22	NO NO		9	
A 12B	1		P2-S SHLD A11					.22 .37	NO NO		8	
A 12E			P1-R P2-R					.22 .22	NO NO		9 8	
A 13	3				3.30 3.30	3.00 3.00				4	A 16, 12, 13 A 17	
A 13A	1		SHLD A13 E2					.37 .37	NO NO			
A 13L			P1-Q• P2-Q•					.22 .22	NO NO		9 8	
A 13R			P1-P• P2-P•					.22 .22	NO NO		9 8	
A 14	3				3.80 3.80	3.50 3.50				4	A 16, 12, 13 A 17	
A 14A	1		SHLD A14 E2					.37 .37	NO NO			
A 14L			P1-S• P2-S•					.22 .22	NO NO		9 8	
A 14R			P1-R• P2-R•					.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902337
SCALE - NONE	REV LTR X C	SHEET 11 OF 14

MIL 2086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15	3				3.80 3.80	3.50 3.50				4	A 16, 12, 13 A 17	
A 15A	1		SHLD A15 E3					.37 .37	NO NO			
A 15L			P1-X• P2-X•					.22 .22	NO NO		9 8	
A 15R			P1-W• P2-W•					.22 .22	NO NO		9 8	
A 16	3				3.80 3.80	3.50 3.50				4	A 16, 12, 13 A 17	
A 16A	1		SHLD A16 E3					.37 .37	NO NO			
A 16L			P1-Z• P2-Z•					.22 .22	NO NO		9 8	
A 16R			P1-Y• P2-Y•					.22 .22	NO NO		9 8	
A 17	3				3.80 3.80	3.50 3.50				4	A 16, 12, 13 A 17	
A 17A	1		SHLD A17 E3					.37 .37	NO NO			
A 17L			P1-BB P2-BB					.22 .22	NO NO		9 8	
A 17R			P1-AA P2-AA					.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902337
SCALE - NONE	REV LTR X C	SHEET 12 OF 14

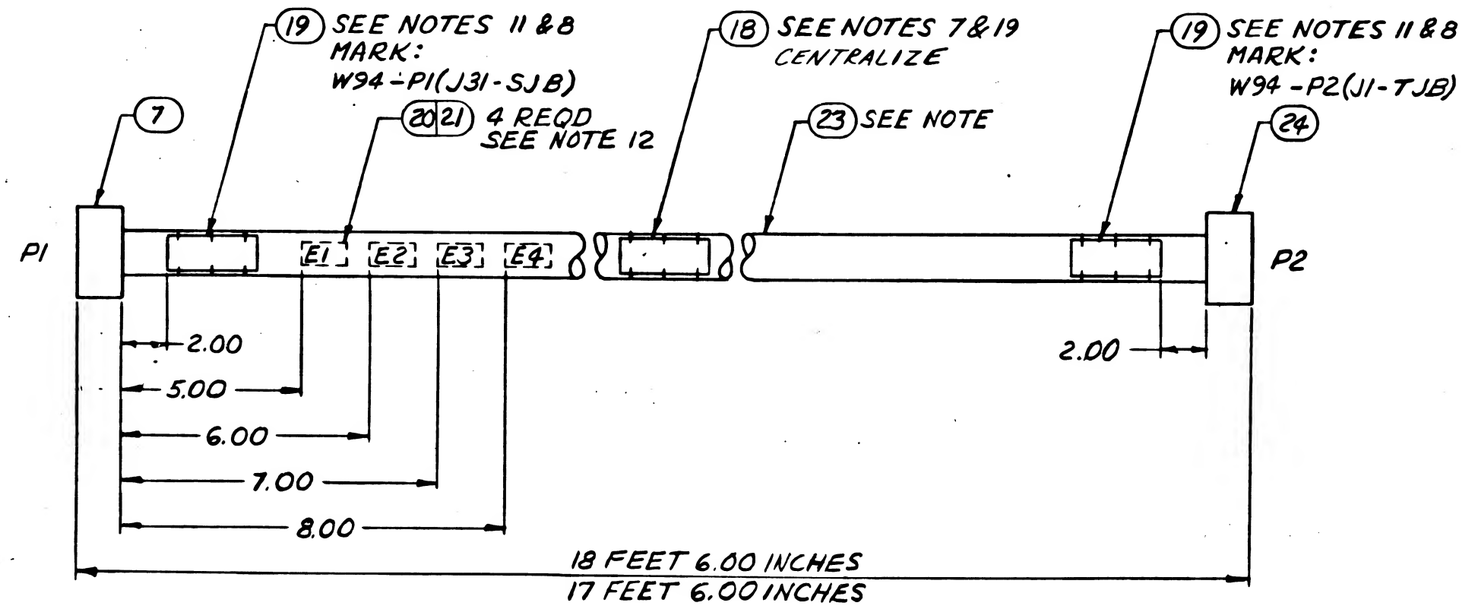
MIL 2086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 18	2		P1-CC P2-CC					.22 .22	NO NO		9 8	
A 19	2		P1-DD P2-DD					.22 .22	NO NO		9 8	
A 20	2		P1-EE P2-EE					.22 .22	NO NO		9 8	
A 21	2		E1 E4					.37 .37	NO NO			
A 22	2		E2 E4					.37 .37	NO NO			
A 23	2		E3 E4					.37 .37	NO NO			
A 24	2		E4 P1-B					.37 .22	NO NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902337
SCALE - NONE	REV LTR X C	SHEET 13 OF 14

MIL 2086 4-63

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE
(EXCEPT LENGTH)
±.50

1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 3 FEB 65
CHECKED 3FEB 65
APPROVAL 3FEB 65
APPROVAL 3-25-65
NASA APPROVAL MAR 26 1965
MIT APPROVAL MAR 26 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W94

CODE IDENT NO.
SIZE C
1902337
SCALE NONE
SHEET 14 OF 14

MIL 1077C-P

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-01	902299-01 (M)	C	UPGRADED FOR CLASS A RELEASE	20MAR 65	JWP
		D	REVISED PER TDR2051G	2 JUL 65	JJJ Mem

REV																								
SHEET																								
REV STATUS	REV	D	C	C	C	C	D	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	D
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14									

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 3 FEB 65 DATE

CHECKED 3 Feb 65

APPROVAL 3-15-65

APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE
ELECTRICAL W94

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

CODE IDENT NO.	SIZE		REV
99974		1902337	D

SCALE —

SHEET 1 OF 4

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER NC 1002206
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1±2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267). .12 HIGH, COLOR WHITE
8	FASTEN MARKER SECURELY WITH ITEM 22. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
9	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPS PER ND1002019 CENTRALIZE
12	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
14	ITEMS 8 AND 9 FURNISHED WITH ITEMS 6 AND 7.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH LETTER L L - WHITE WITH BLUE TRACER R - WHITE WITH LETTER R R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER
16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES
17	SEAL ZIPPER TUBING PER ND1002153.
18	SERIALIZE PER ND 1002023
19	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
20	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM THE TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902337-001	WIRE NC 1002181, TYPE 1, CLASS 1, WHT NO. 22AWG 6 FEET TOTAL LENGTH
	2	1	1902337-002	WIRE ND 10C2181, TYPE 1, CLASS 1, WHT NO. 20AWG 55 FEET 6 INCHES TOTAL LENGTH
	3	1	1902337-003	WIRE ND 10C2181, TYPE 2, CLASS 4, WHT. JKT., NO. 20AWG, WHT/BLU WHT/RED 470 FT TOTAL LENGTH
	4	1	1902337-004	WIRE ND 10C2181, TYPE 3, CLASS 4, WHT JKT, NO. 20AWG, WHT/BLU, WHT/RED, WHT/YEL 36 FEET TOTAL LENGTH
	5	1	1902337-005	WIRE COAXIAL MIL-C-17/69A, RG 188A/U 36 FEET TOTAL LENGTH
	6	1	1902337-006	WIRE ND 1002181, TYPE 2, CLASS 1, T2 NO. 20AWG WHT WITH LETTER L, WHITE WITH LETTER R 18 FEET TOTAL LENGTH
	7	1	MS3126F24-61PY	(1897047-613) CONN. ELEC PIN CRIMP TYPE
	8	42	MS3193A-20A	(1896877-020) CONTACT ELEC SOCKET
	9	43	MS3192A-20A	1896855-020) CONTACT ELEC PIN
10	10	4	1000243- 4	FERRULE ELEC COND
10	11	4	1000242- 4	FERRULE ELEC COND
10	12	15	1000243- 14	FERRULE ELEC COND
10	13	15	1000242- 12	FERRULE ELEC COND
10	14	2	1000243- 15	FERRULE ELEC COND

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
10 15	2	1000242- 16	FERRULE ELEC COND
10 16	15	1010490-194	INSULATION SLEEVING
10 17	13	1010490-196	INSULATION SLEEVING
10 18	*2	1016128-011	BAND IDENTIFICATION
10 19	2	1016128-041	BAND IDENTIFICATION
10 20	4	1016006-001	SPLICE REDUCER
10 21	4	1010490-226	INSULATION SLEEVING
13 22	AR	1012507-004	TAPE, LACING AND TYING
23	1	1902337-007	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE 1 IN. DIA. 18 FT. TOT. LENGTH
24	1	MS3126F24-61SZ	(1897048-614) CONN ELEC SOCKET CRIMP TYPE
10 25	4	1010490-198	INSULATION SLEEVING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337 | SCALE-NONE | REV LTR X D | SHEET 6 OF 14

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			2.30 2.30	2.00 2.00				4	A 16, 14, 15 A 17	
A	1A	1	SHLD A1 E1					.37 .37	NO NO			
A	1L		P1-E P2-E					.22 .22	NO NO		9 8	
A	1R		P1-D P2-D					.22 .22	NO NO		9 8	
A	1Y		P1-F P2-F					.22 .22	NO NO		9 8	
A	2	3			2.30 2.30	2.00 2.00				4	A 16, 12, 13 A 17	
A	2A	1	SHLD A2 E1					.37 .37	NO NO			
A	2L		P1-H P2-H					.22 .22	NO NO		9 8	
A	2R		P1-G P2-G					.22 .22	NO NO		9 8	
A	3	3			2.30 2.30	2.00 2.00				4	A 16, 12, 13 A 17,	
A	3A	1	SHLD A3 E1					.37 .37	NO NO			
A	3L		P1-K P2-K					.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337 | SCALE-NONE | REV LTR X C | SHEET 7 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3R		P1-J P2-J					.22 .22	NO NO		9 8	
A	4	3			2.30 2.30	2.00 2.00				4	A 16, 12, 13 A 16, 12, 13	
A	4A	1	SHLD A4 P1-P					.37 .22	NO NO		9	
A	4B	1	P2-P SHLD A4					.22 .37	NO NO		8	
A	4L		P1-M P2-M					.22 .22	NO NO		9 8	
A	4R		P1-L P2-L					.22 .22	NO NO		9 8	
A	5	4			2.80 2.80	2.50 2.50				4	A 16, 14, 15 A 17	
A	5A	1	SHLD A5 E1					.37 .37	NO NO			
A	5L		P1-U P2-U					.22 .22	NO NO		9 8	
A	5R		P1-T P2-T					.22 .22	NO NO		9 8	
A	5Y		P1-V P2-V					.22 .22	NO NO		9 8	
A	6	6										

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337 | SCALE-NONE | REV LTR X C | SHEET 8 OF 14

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P1-X P2-X					.22 .22	NO NO		9 8	
A	6R		P1-W P2-W					.22 .22	NO NO		9 8	
A	7	5			2.80 2.80	2.50 2.50				4 4	A 25, 10, 11 A 25, 10, 11	
A	7A	1	SHLD A7 P1-C*					.37 .22	NO NO		9	
A	7B	1	P2-C* SHLD A7					.22 .37	NO NO		8	
A	7E		P1-B* P2-B*					.22 .22	NO NO		9 8	
A	8	3			2.80 2.80	2.50 2.50					A 16, 12, 13 A 17, 12, 13	
A	8A	1	SHLD A8 P1-F*					.37 .22	NO NO		9	
A	8B	1	P2-F* SHLD A8					.22 .37	NO NO		8	
A	8L		P1-E* P2-E*					.22 .22	NO NO		9 8	
A	8R		P1-D* P2-D*					.22 .22	NO NO		9 8	
A	9	3			2.80 2.80	2.50 2.50				4	A 16, 13, 12 A 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337 | SCALE-NONE | REV LTR X C | SHEET 9 OF 14

MIL 2044 4-63

CABLE W94 1902337 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 9A	1		SHLD A9 E2				.37 .37	NO NO			
A 9L			P1-I• P2-I•				.22 .22	NO NO		9 8	
A 9R			P1-H• P2-H•				.22 .22	NO NO		9 8	
A 10	3				3.30 3.30	3.00 3.00			4	A 16, 12, 13 A 17	
A 10A	1		SHLD A10 E2				.37 .37	NO NO			
A 10L			P1-K• P2-K•				.22 .22	NO NO		9 8	
A 10R			P1-J• P2-J•				.22 .22	NO NO		9 8	
A 11	3				3.30 3.30	3.00 3.00			4	A 16, 12, 13 A 17, 12, 13	
A 11A	1		SHLD A11 P1-MM				.37 .22	NO NO		9	
A 11B	1		P2-MM SHLD A11				.22 .37	NO NO		8	
A 11L			P1-N• P2-N•				.22 .22	NO NO		9 8	
A 11R			P1-M• P2-M•				.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337
SCALE-NONE | REV LTR X C | SHEET 10 OF 14

CABLE W94 1902337 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 12	5				3.30 3.30	3.00 3.00			4	A 25, 10, 11 A 25, 10, 11	
A 12A	1		SHLD A12 P1-S				.37 .22	NO NO		9	
A 12B	1		P2-S SHLD A11				.22 .37	NO NO		8	
A 12E			P1-R P2-R				.22 .22	NO NO		9 8	
A 13	3				3.30 3.30	3.00 3.00			4	A 16, 12, 13 A 17	
A 13A	1		SHLD A13 E2				.37 .37	NO NO			
A 13L			P1-Q• P2-Q•				.22 .22	NO NO		9 8	
A 13R			P1-P• P2-P•				.22 .22	NO NO		9 8	
A 14	3				3.80 3.80	3.50 3.50			4	A 16, 12, 13 A 17	
A 14A	1		SHLD A14 E2				.37 .37	NO NO			
A 14L			P1-S• P2-S•				.22 .22	NO NO		9 8	
A 14R			P1-R• P2-R•				.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337
SCALE-NONE | REV LTR X C | SHEET 11 OF 14

MIL 3086 4-63

CABLE W94 1902337 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15	3				3.80 3.80	3.50 3.50			4	A 16, 12, 13 A 17	
A 15A	1		SHLD A15 E3				.37 .37	NO NO			
A 15L			P1-X• P2-X•				.22 .22	NO NO		9 8	
A 15R			P1-W• P2-W•				.22 .22	NO NO		9 8	
A 16	3				3.80 3.80	3.50 3.50			4	A 16, 12, 13 A 17	
A 16A	1		SHLD A16 E3				.37 .37	NO NO			
A 16L			P1-Z• P2-Z•				.22 .22	NO NO		9 8	
A 16R			P1-Y• P2-Y•				.22 .22	NO NO		9 8	
A 17	3				3.80 3.80	3.50 3.50			4	A 16, 12, 13 A 17	
A 17A	1		SHLD A17 E3				.37 .37	NO NO			
A 17L			P1-BB P2-BB				.22 .22	NO NO		9 8	
A 17R			P1-AA P2-AA				.22 .22	NO NO		9 8	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337
SCALE-NONE | REV LTR X C | SHEET 12 OF 14

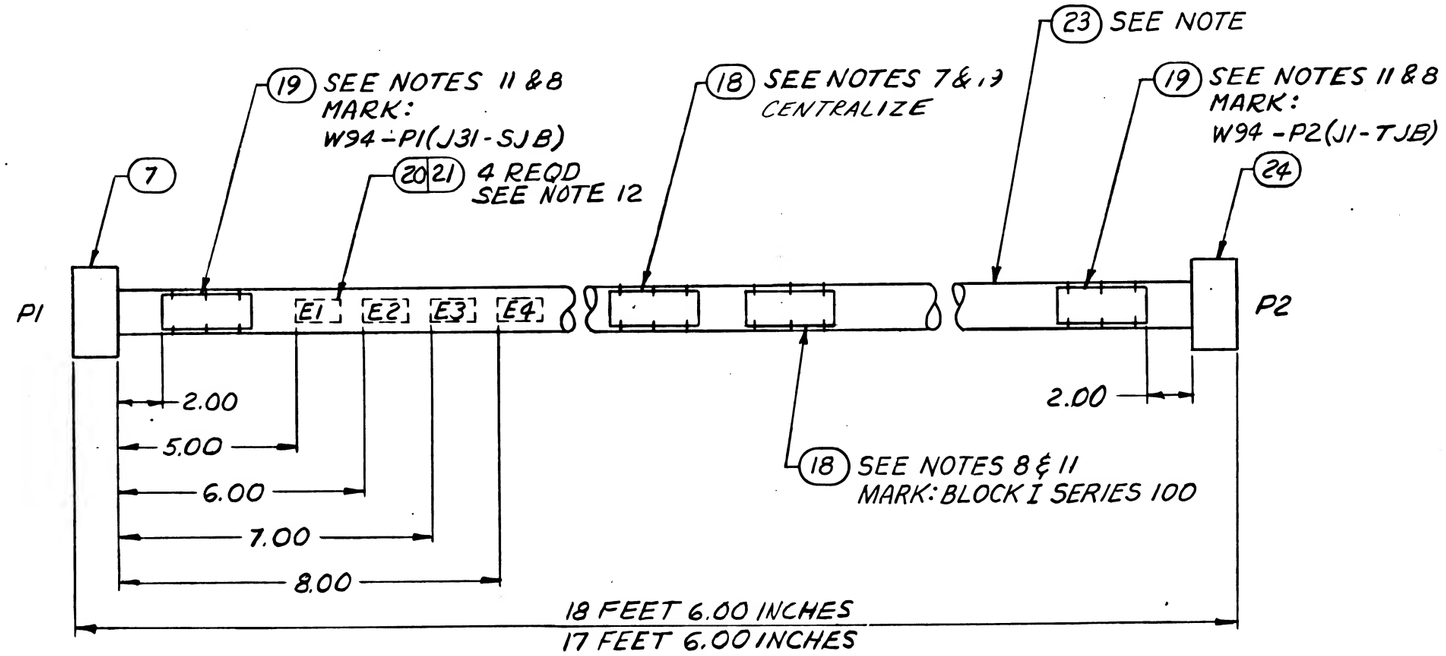
CABLE W94 1902337 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 18	2		P1-CC P2-CC				.22 .22	NO NO		9 8	
A 19	2		P1-DD P2-DD				.22 .22	NO NO		9 8	
A 20	2		P1-EE P2-EE				.22 .22	NO NO		9 8	
A 21	2		E1 E4				.37 .37	NO NO			
A 22	2		E2 E4				.37 .37	NO NO			
A 23	2		E3 E4				.37 .37	NO NO			
A 24	2		E4 P1-B				.37 .22	NO NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902337
SCALE-NONE | REV LTR X C | SHEET 13 OF 14

1902337

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
M		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE
(EXCEPT LENGTH)
±.50

1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Dillon 3 FEB 65 DATE
CHECKED C. Pajda 3 FEB 65
APPROVAL R. Pierini 3 FEB 65
APPROVAL M. Watson 3-25-65
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W94

CODE IDENT NO.	SIZE	
99974	C	1902337
SCALE NONE		SHEET 14 OF 14

MIL 1077C-P

1902337

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	C	UPGRADED FOR CLASS A RELEASE	20MAR 65	JWP

REV.														
SHEET														
REV STATUS	REV.	C	C	C	C	C	C	C	C	C	C	C	C	C
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN.

DRAWN C. MURRAY 28 JAN 65 DATE
CHECKED 1 FEB 65
APPROVAL R Piccini 3 FEB 65
APPROVAL J. M. Watson 2-11-65

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W91

CODE IDENT NO.	SIZE		REV
		1902338	C
SCALE None		SHEET 1 OF 14	

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 HIGH COLOR WHITE.
8	FASTEN MARKER SECURELY WITH ITEM 23. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
9	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 IN. HIGH CHARACTERS, COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.
12	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
14	ITEM 18 FURNISHED WITH ITEM 7

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER
16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
17	SEAL ZIPPER TUBING PER ND1002153.
18	SERIALIZE PER ND1002023.
19	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH COLOR WHITE PER ND1002019 MARKING TO READ AWAY FROM ATTACHED ACCESSORY.
20	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD
21	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902338-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO 22AWG 16 FT. TOTAL LENGTH
	2	1	1902338-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO 20AWG 3 FT. TOTAL LENGTH
	3	1	1902338-003	WIRE ND1002181, TYPE 2, CLASS 4, WHT JKT, NO 22AWG, WHT/RED, WHT/BLU, 96 FT. TOTAL LENGTH
	4	1	1902338-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT, NO 22AWG, WHT/RED, WHT/BLU, WHT/YEL, 16 FT. TOT LG
	5	1	1902338-005	WIRE COAXIAL MIL-C-17/69A, RG 188A/U, 16 FT. TOTAL LENGTH
10	6	1	1897173- 2	CONNECTOR, RECEPTACLE ELEC
	7	1	MS3126F-24-61PW	(1897047-611) CONNECTOR, PLUG, ELEC) CRIMP TYPE
10	8	4	10002A3- 4	FERRULE ELEC. COND
10	9	4	10002A2- 4	FERRULE ELEC. COND
10	10	12	10002A3- 10	FERRULE ELEC. COND
10	11	14	10002A2- 11	FERRULE ELEC. COND
10	12	2	10002A3- 11	FERRULE ELEC. COND
10	13	6	1016006-001	SPLICE REDUCER
10	14	32	1010490-198	INSULATION SLEEVING
10	15	6	1010490-200	INSULATION SLEEVING

SEE NOTE NUMBER	ITEM	QTY	LIST OF MATERIALS PART NO.	DESCRIPTION
10	16	1	1015902- 46	TERMINAL LUG
10	17	108	1010738- 6	CONTACT, CRIMP TYPE SOCKET
	18	61	MS3192A-20A	(1896855-020) CONTACT, ELEC. PIN, CRIMP
10	19	1	1016128-011	BAND IDENTIFICATION
10	20	2	1016128-041	BAND IDENTIFICATION
10	21	1	1902339-007 ~~1016197-006~~	TUBING, ~~MODIFIED POLYVINYL CHLORIDE FLEXIBLE~~ 1016197-006, SHRINK FIT 6 INCH TOTAL LENGTH
	22	1	1902338-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE .75 DIA 8 FT. TOTAL LENGTH
13	23	AR	1012507-004	TAPE LACING AND TYING

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4 3				2.30 2.30	2.00 2.00				4	A 14, 10, 11 A 14	
A	4A 1		SHLD A4 E2					.37 .37	NO NO			
A	4L		P1-L P2-60					.22 .10	NO NO		18 17	
A	4R		P1-K P2-50					.22 .10	NO NO		18 17	
A	5 3				2.80 2.80	2.50 2.50				4	A 14, 10, 11 A 14	
A	5A 1		SHLD A5 E2					.37 .37	NO NO			
A	5L		P1-N P2-4					.22 .10	NO NO		18 17	
A	5R		P1-M P2-17					.22 .10	NO NO		18 17	
A	6 3				2.80 2.80	2.50 2.50				4	A 14, 10, 11 A 14	
A	6A 1		SHLD A6 E3					.37 .37	NO NO			
A	6L		P1-R P2-8					.22 .10	NO NO		18 17	
A	6R		P1-P P2-22					.22 .10	NO NO		18 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1 3				2.30 2.30	2.00 2.00				4	A 14, 10, 11 A 14	
A	1A 1		SHLD A1 E2					.37 .37	NO NO			
A	1L		P1-E P2-14					.22 .10	NO NO		18 17	
A	1R		P1-D P2-1					.22 .10	NO NO		18 17	
A	2 3				2.30 2.30	2.00 2.00				4	A 14, 10, 11 A 14	
A	2A 1		SHLD A2 E2					.37 .37	NO NO			
A	2L		P1-G P2-2					.22 .10	NO NO		18 17	
A	2R		P1-F E6					.22 .37	NO NO		18	
A	3 3				2.30 2.30	2.00 2.00				4	A 14, 10, 11 A 14	
A	3A 1		SHLD A3 P1-KK					.37 .22	NO NO		18	
A	3L		P1-J P2-29					.22 .10	NO NO		18 17	
A	3R		P1-H P2-28					.22 .10	NO NO		18 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7 3				2.80 2.80	2.50 2.50				4	A 14, 10, 11 A 14	
A	7A 1		SHLD A7 E3					.37 .37	NO NO			
A	7L		P1-T P2-10					.22 .10	NO NO		18 17	
A	7R		P1-S P2-9					.22 .10	NO NO		18 17	
A	8 3				2.80 2.80	2.50 2.50				4	A 14, 10, 11 A 14	
A	8A 1		SHLD A8 E3					.37 .37	NO NO			
A	8L		P1-V E1					.22 .37	NO NO		18	
A	8R		P1-U P2-12					.22 .10	NO NO	17	18	
A	9 1		E1 P2-11					.37 .10	NO NO		17	
A	10 3				3.30 3.30	3.00 3.00				4	A 14, 10, 11 A 14	
A	10A 1		SHLD A10 E3					.37 .37	NO NO			
A	10L		P1-X P2-66					.22 .10	NO NO		18 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10R			P1-W P2-56					.22 .10	NO NO		18 17	
A 11	5				3.30 3.30	3.00 3.00				4 4	A 14, 8, 9 A 14, 8, 9	
A 11A	1		SHLD A11 P1-Z					.37 .22	NO NO		18	
A 11B	1		P2-67 SHLD A11					.10 .37	NO NO		17	
A 11E			P1-Y P2-68					.22 .10	NO NO		18 17	
A 12	3				3.30 3.30	3.00 3.00				4	A 14, 10, 11 A 14	
A 12A	1		SHLD A12 E4					.37 .37	NO NO			
A 12L			P1-N* P2-86					.22 .10	NO NO		18 17	
A 12R			P1-M* P2-100					.22 .10	NO NO		18 17	
A 13	3				3.30 3.30	3.00 3.00				4	A 14, 10, 11 A 14	
A 13A	1		SHLD A13 P1-DD					.37 .22	NO NO		18	
A 13L			P1-Q* P2-87					.22 .10	NO NO		18 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR X C	SHEET 10 OF 14

MIL 3088 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13R			P1-P* P2-101					.22 .10	NO NO		18 17	
A 14	3				3.80 3.80	3.50 3.50				4	A 14, 10, 11 A 14	
A 14A	1		SHLD A14 P1-EE					.37 .22	NO NO		18	
A 14L			P1-S* P2-104					.22 .10	NO NO		18 17	
A 14R			P1-R* P2-90					.22 .10	NO NO		18 17	
A 15	4				3.80 3.80	3.50 3.50				4	A 14, 12, 11 A 14	
A 15A	1		SHLD A15 P1-G*					.37 .22	NO NO		18	
A 15L			P1-E* P2-108					.22 .10	NO NO		18 17	
A 15R			P1-D* P2-107					.22 .10	NO NO		18 17	
A 15Y			P1-F* P2-94					.22 .10	NO NO		18 17	
A 16	5				3.80 3.80	3.50 3.50				4 4	A 14, 8, 9 A 14, 8, 9	
A 16A	1		SHLD A16 P1-X*					.37 .22	NO NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR X C	SHEET 11 OF 14

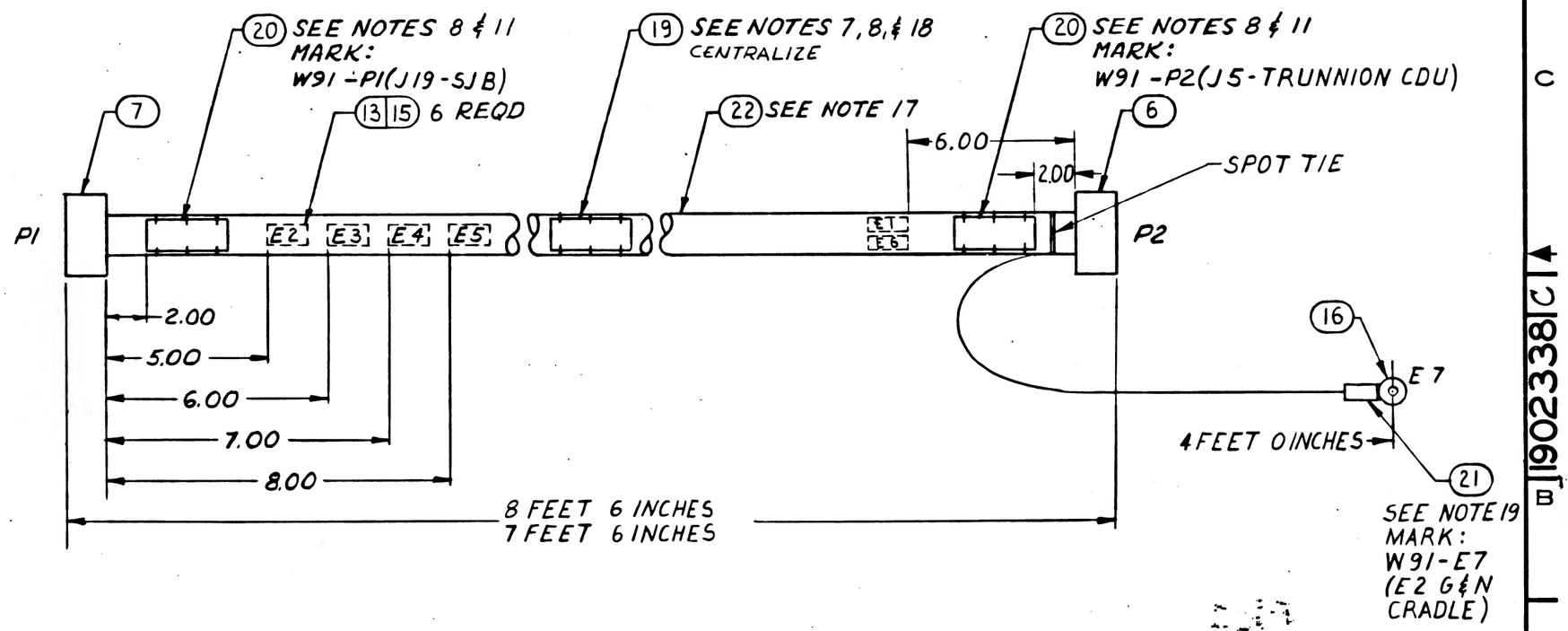
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16B	1		P2-92 SHLD A16					.10 .37	NO NO		17	
A 16E			P1-W* P2-106					.22 .10	NO NO		18 17	
A 17	4				3.80 3.80	3.50 3.50				4	A 14, 12, 11 A 14	
A 17A	1		SHLD A17 E4					.37 .37	NO NO			
A 17L			P1-B* P2-32					.22 .10	NO NO		18 17	
A 17R			P1-A* P2-31					.22 .10	NO NO		18 17	
A 17Y			P1-C* P2-43					.22 .10	NO NO		18 17	
A 18	1		P2-41 E7					.10 .37	NO NO		17	
A 19	2		E2 E5					.37 .37	NO NO			
A 20	2		E3 E5					.37 .37	NO NO			
A 21	2		E4 E5					.37 .37	NO NO			
A 22	2		E5 P1-B					.37 .22	NO NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR X C	SHEET 12 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23	1		E1 P2-25					.37 .10	NO NO		17	
A 24	1		E6 P2-3					.37 .10	NO NO		17	
A 25	1		E6 P2-5					.37 .10	NO NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR X C	SHEET 13 OF 14

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
	—	SEE SHEET 1 FOR REVISION RECORD.			



LOCATION TOLERANCE - INCHES
(EXCEPT LENGTH)
±.50

1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+— +— +—
— — —
DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN

DRAWN G. Murray 28 JAN 65
CHECKED E. Kima 1 FEB 65
APPROVAL R. Perini 3 FEB 65
APPROVAL J. M. Watson 3-25-65
NASA APPROVAL R. C. [illegible] MAR 26 1968
MIT APPROVAL W. Kaplan MAR 30 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W 91

CODE IDENT NO.	SIZE	
	C	1902338
SCALE NONE		SHEET 14 OF 14

1902338 C

MIL 1077C-P

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011 (M)	C	UPGRADED FOR CLASS A RELEASE	20MAR 65	JWP
		D	REVISED PER TDRR 20514	2 JUL 65	JJJ MEM

REV															
SHEET															
REV STATUS OF SHEETS	REV	D	C	C	C	C	D	C	C	C	C	C	C	C	D
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN G. MURRAY 28 JAN 65 DATE
CHECKED [illegible] 1 FEB 65
APPROVAL R. Parisi 3 FEB 65
APPROVAL J. M. Watson 2-25-65

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W91

NASA APPROVAL
MIT APPROVAL
CONTRACT NAS 9-497

CODE IDENT NO.	SIZE		REV
99974		1902338	D

SCALE NONE

SHEET 1 OF 14

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 HIGH COLOR WHITE.
8	FASTEN MARKER SECURELY WITH ITEM 23. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
9	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 IN. HIGH CHARACTERS, COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.
12	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
14	ITEM 18 FURNISHED WITH ITEM 7

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR C	SHEET 2 OF 14

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER
16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
17	SEAL ZIPPER TUBING PER ND1002153.
18	SERIALIZE PER ND1002023.
19	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH COLOR WHITE PER ND1002019 MARKING TO READ AWAY FROM ATTACHED ACCESSORY.
20	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD
21	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR C	SHEET 3 OF 14

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR C	SHEET 4 OF 14

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902338-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO 22AWG 16 FT. TOTAL LENGTH
	2	1	1902338-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT, NO 20AWG 3 FT. TOTAL LENGTH
	3	1	1902338-003	WIRE ND1002181, TYPE 2, CLASS 4, WHT JKT, NO 22AWG, WHT/RED, WHT/BLU, 96 FT. TOTAL LENGTH
	4	1	1902338-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT, NO 22AWG, WHT/RED, WHT/BLU, WHT/YEL, 16 FT. TOT LG
	5	1	1902338-005	WIRE COAXIAL MIL-C-17/69A, RG 188A/U, 16 FT. TOTAL LENGTH
10	6	1	1897173- 2	CONNECTOR, RECEPTACLE ELEC
	7	1	MS3126F-24-61PW	(1897047-611) CONNECTOR, PLUG, ELEC) CRIMP TYPE
10	8	4	1000243- 4	FERRULE ELEC. COND
10	9	4	1000242- 4	FERRULE ELEC. COND
10	10	12	1000243- 10	FERRULE ELEC. COND
10	11	14	1000242- 11	FERRULE ELEC. COND
10	12	2	1000243- 11	FERRULE ELEC. COND
10	13	6	1016006-001	SPLICE REDUCER
10	14	32	1010490-198	INSULATION SLEEVING
10	15	6	1010490-200	INSULATION SLEEVING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902338
SCALE-NONE	REV LTR C	SHEET 5 OF 14

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
10	16	1	1015902- 46	TERMINAL LUG
10	17	108	1010738- 6	CONTACT, CRIMP TYPE SOCKET
	18	61	MS3192A-20A	(1896855-020) CONTACT, ELEC. PIN, CRIMP
10	19	#2	1016128-011	BAND IDENTIFICATION
10	20	2	1016128-041	BAND IDENTIFICATION
10	21	1	1902338-027 ~~1016197-006~~	TUBING, ~~MODIFIED POLYVINYL CHLORIDE FLEXIBLE~~ 1016197-006, SHRINK FIT 6 INCH TOTAL LENGTH
	22	1	1902338-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE .75 DIA 8 FT. TOTAL LENGTH
13	23	AR	1012507-004	TAPE LACING AND TYING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR D | SHEET 6 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	3			2.30 2.30	2.00 2.00			4	A 14, 10, 11 A 14	
A	1A	1	SHLD A1 E2				.37 .37	NO NO			
A	1L		P1-E P2-14				.22 .10	NO NO		18 17	
A	1R		P1-D P2-1				.22 .10	NO NO		18 17	
A	2	3			2.30 2.30	2.00 2.00			4	A 14, 10, 11 A 14	
A	2A	1	SHLD A2 E2				.37 .37	NO NO			
A	2L		P1-G P2-2				.22 .10	NO NO		18 17	
A	2R		P1-F E6				.22 .37	NO NO		18	
A	3	3			2.30 2.30	2.00 2.00			4	A 14, 10, 11 A 14	
A	3A	1	SHLD A3 P1-KK				.37 .22	NO NO		18	
A	3L		P1-J P2-29				.22 .10	NO NO		18 17	
A	3R		P1-H P2-28				.22 .10	NO NO		18 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR C | SHEET 7 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4	3			2.30 2.30	2.00 2.00			4	A 14, 10, 11 A 14	
A	4A	1	SHLD A4 E2				.37 .37	NO NO			
A	4L		P1-L P2-60				.22 .10	NO NO		18 17	
A	4R		P1-K P2-50				.22 .10	NO NO		18 17	
A	5	3			2.80 2.80	2.50 2.50			4	A 14, 10, 11 A 14	
A	5A	1	SHLD A5 E2				.37 .37	NO NO			
A	5L		P1-N P2-4				.22 .10	NO NO		18 17	
A	5R		P1-M P2-17				.22 .10	NO NO		18 17	
A	6	3			2.80 2.80	2.50 2.50			4	A 14, 10, 11 A 14	
A	6A	1	SHLD A6 E3				.37 .37	NO NO			
A	6L		P1-R P2-8				.22 .10	NO NO		18 17	
A	6R		P1-P P2-22				.22 .10	NO NO		18 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR C | SHEET 8 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7	3			2.80 2.80	2.50 2.50			4	A 14, 10, 11 A 14	
A	7A	1	SHLD A7 E3				.37 .37	NO NO			
A	7L		P1-T P2-10				.22 .10	NO NO		18 17	
A	7R		P1-S P2-9				.22 .10	NO NO		18 17	
A	8	3			2.80 2.80	2.50 2.50			4	A 14, 10, 11 A 14	
A	8A	1	SHLD A8 E3				.37 .37	NO NO			
A	8L		P1-V E1				.22 .37	NO NO		18	
A	8R		P1-U P2-12				.22 .10	NO NO		18 17	
A	9	1	E1 P2-11				.37 .10	NO NO		17	
A	10	3			3.30 3.30	3.00 3.00			4	A 14, 10, 11 A 14	
A	10A	1	SHLD A10 E3				.37 .37	NO NO			
A	10L		P1-X P2-66				.22 .10	NO NO		18 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR C | SHEET 9 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10R			P1-W					.22	NO		18	
			P2-56					.10	NO		17	
A 11	5				3.30	3.00				4	A 14, 8, 9	
					3.30	3.00				4	A 14, 8, 9	
A 11A	1		SHLD A11					.37	NO			
			P1-Z					.22	NO		16	
A 11B	1		P2-67					.10	NO		17	
			SHLD A11					.37	NO			
A 11E			P1-Y					.22	NO		18	
			P2-68					.10	NO		17	
A 12	3				3.30	3.00				4	A 14, 10, 11	
					3.30	3.00					A 14	
A 12A	1		SHLD A12					.37	NO			
			E4					.37	NO			
A 12L			P1-N*					.22	NO		18	
			P2-86					.10	NO		17	
A 12R			P1-M*					.22	NO		18	
			P2-100					.10	NO		17	
A 13	3				3.30	3.00				4	A 14, 10, 11	
					3.30	3.00					A 14	
A 13A	1		SHLD A13					.37	NO			
			P1-DD					.22	NO		18	
A 13L			P1-Q*					.22	NO		18	
			P2-87					.10	NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR X C | SHEET 10 OF 14

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13R			P1-P*					.22	NO		18	
			P2-101					.10	NO		17	
A 14	3				3.80	3.50				4	A 14, 10, 11	
					3.80	3.50					A 14	
A 14A	1		SHLD A14					.37	NO			
			P1-EE					.22	NO		18	
A 14L			P1-S*					.22	NO		18	
			P2-104					.10	NO		17	
A 14R			P1-R*					.22	NO		18	
			P2-90					.10	NO		17	
A 15	4				3.80	3.50				4	A 14, 12, 11	
					3.80	3.50					A 14	
A 15A	1		SHLD A15					.37	NO			
			P1-G*					.22	NO		18	
A 15L			P1-E*					.22	NO		18	
			P2-108					.10	NO		17	
A 15R			P1-D*					.22	NO		18	
			P2-107					.10	NO		17	
A 15Y			P1-F*					.22	NO		18	
			P2-94					.10	NO		17	
A 16	5				3.80	3.50				4	A 14, 8, 9	
					3.80	3.50				4	A 14, 8, 9	
A 16A	1		SHLD A16					.37	NO			
			P1-X*					.22	NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR X C | SHEET 11 OF 14

MIL 3064 4-63

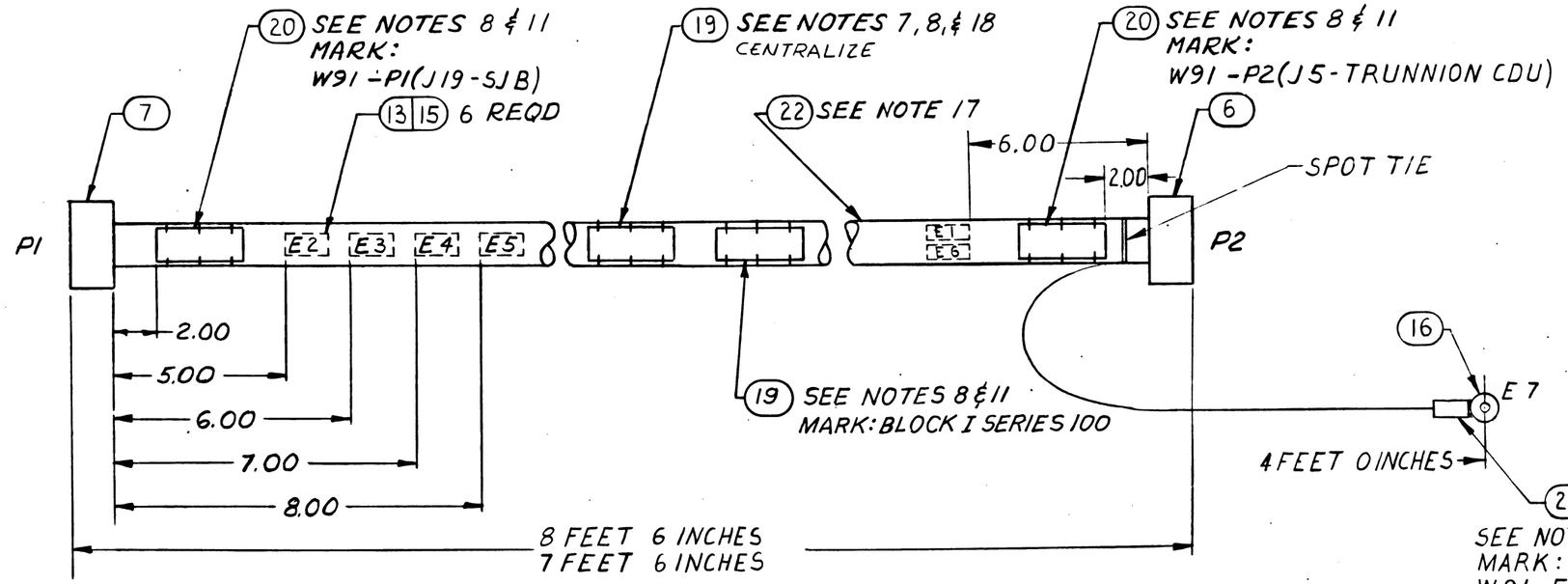
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16B	1		P2-92					.10	NO		17	
			SHLD A16					.37	NO			
A 16E			P1-W*					.22	NO		18	
			P2-106					.10	NO		17	
A 17	4				3.80	3.50				4	A 14, 12, 11	
					3.80	3.50					A 14	
A 17A	1		SHLD A17					.37	NO			
			E4					.37	NO			
A 17L			P1-B*					.22	NO		18	
			P2-32					.10	NO		17	
A 17R			P1-A*					.22	NO		18	
			P2-31					.10	NO		17	
A 17Y			P1-C*					.22	NO		18	
			P2-43					.10	NO		17	
A 18	1		P2-41					.10	NO		17	
			E7					.37	NO			
A 19	2		E2					.37	NO			
			E5					.37	NO			
A 20	2		E3					.37	NO			
			E5					.37	NO			
A 21	2		E4					.37	NO			
			E5					.37	NO			
A 22	2		E5					.37	NO			
			P1-B					.22	NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR X C | SHEET 12 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23	1		E1					.37	NO			
			P2-25					.10	NO		17	
A 24	1		E6					.37	NO			
			P2-3					.10	NO		17	
A 25	1		E6					.37	NO			
			P2-5					.10	NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902338 | SCALE-NONE | REV LTR X C | SHEET 13 OF 14

REVISIONS 178,1					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
M		SEE SHEET 1 FOR REVISION RECORD.			



LOCATION TOLERANCE - INCHES
(EXCEPT LENGTH)
±.50

1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 28 JAN 65
CHECKED R. Lima 1 FEB 65
APPROVAL R Pierini 3 FEB 65
APPROVAL M. Watson 3-25-65
NASA APPROVAL A.C. 6 Dec
MIT APPROVAL W. Kaufman

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W 91

CODE IDENT NO.	SIZE	
99974	C	1902338
SCALE NONE		SHEET 14 OF 14

1902338 D

MIL 1077C-P

APPLICATION		REVISIONS 17810			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	C	UPGRADED FOR CLASS A RELEASE	20MAR 65	JWP

REV																										
SHEET																										
REV STATUS	REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C											
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14											

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
ACSP PN			
DRAWN G MURRAY DATE 28 JAN 65		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W92	
CHECKED DATE 1 FEB 65			
APPROVAL R. Piccini 3 FEB 65			
APPROVAL J. M. Walton 2-24-65			
NASA APPROVAL	CODE IDENT NO.	SIZE A	1902339 REV C
MIT APPROVAL			
CONTRACT NAS9-497	SCALE Above		SHEET 1 OF 14

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION----
FIG.1 IS FIG.4 OF ND1002206
FIG.2 OF FIG.7 IS ND1002032
FIG.3 IS FIG.5 OF ND1002206

2 ASSEMBLE PER ND1002032

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

~~5 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~

~~6 SPIRALLING OF THE MARKING IS ALLOWED.~~

7 IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 HIGH COLOR WHITE

8 FASTEN MARKER SECURELY WITH ITEM 22. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS

9 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.

12 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

13 VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339	
SCALE - NONE	REV LTR X ♣ C		SHEET 2 OF 14

MIL 2086 4-83

NOTE NUMBER — GENERAL NOTES DESCRIPTION

15 THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
E - GRAY
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
Y - WHITE WITH YELLOW TRACER

16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.

17 SEAL ZIPPER TUBING PER ND1002153.

18 SERIALIZE PER ND1002023.

19 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH COLOR WHITE PER ND1002019. MARKING TO READ AWAY FROM ATTACHED ACCESSORY.

20 MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

21 A OR T PREFIX IN THE ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339	
SCALE - NONE	REV LTR X C		SHEET 3 OF 14

MIL 2086 4-83

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339	
SCALE - NONE	REV LTR X C		SHEET 4 OF 14

MIL 2086 4-83

SEE NOTE NUMBER — LIST OF MATERIALS

ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902339-001	WIRE ND1002181, TYPE 1, CLASS 1 WHT NO. 22AWG 11 FT. TOTAL LENGTH
2	1	1902339-002	WIRE ND1002181, TYPE 2, CLASS 4 WHT JKT NO. 22AWG WHT/BLU, WHT/RED 96 FT. TOTAL LENGTH
3	1	1902339-003	WIRE ND1002181, TYPE 3, CLASS 4 WHT JKT NO. 22AWG WHT/BLU, WHT/RED, WHT/YEL, 24 FT. TOT. LG
4	1	1902339-004	WIRE COAXIAL MIL-C-17/69A RG188 A/U 8 FT TOT LG
5	1	1902339-005	WIRE ND1002181 TYPE 1, CLASS 1, WHT NO. 20AWG 3 FT. TOTAL LENGTH
6	1	MS3126F-24-61P	(1897047-610) CONNECTOR PLUG ELEC (CRIMP TYPE)
10 7	1	1897173- 2	CONNECTOR, RECEPTACLE ELEC
10 8	15	1000242- 11	FERRULE ELEC. COND
10 9	12	1000243- 10	FERRULE ELEC. COND
10 10	3	1000243- 11	FERRULE ELEC. COND
10 11	2	1000243- 4	FERRULE ELEC. COND
10 12	2	1000242- 4	FERRULE ELEC. COND
10 13	32	1010490-196	INSULATION SLEEVING ELEC
10 14	5	1016006-001	SPLICE REDUCER
10 15	5	1010490-256	INSULATION SLEEVING ELEC
10 16	108	1010738- 6	CONTACT CRIMP TYPE SOCKET

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339	
SCALE - NONE	REV LTR X C		SHEET 5 OF 14

MIL 2086 4-83

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
17	61	MS3192A-20A	(1896855-020) CONTACT, ELEC. PIN CRIMP
10 18	1	1016128-011	BAND IDENTIFICATION
10 19	2	1016128-041	BAND IDENTIFICATION
10 20	1	1015902- 46	TERMINAL LUG
21	1	1902339-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE .75 DIA 8 FT. TOTAL LENGTH
13 22	AR	1012507-004	TAPE LACING AND TYING
10 23	1	~~1902339-007~~ 1016197-006 / ~~1016197-006~~ 1016197-006	TUBING, ~~MODIFIED POLYVINYL CHLORIDE~~ FLEXIBLE SHRINK FIT 6 INCH TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR C | SHEET 6 OF 14

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	1A	1	SHLD A1 E1					.37 .37	NO NO			
A	1L		P1-E P2-14					.22 .10	NO NO		17 16	
A	1R		P1-D P2-1					.22 .10	NO NO		17 16	
A	2	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	2A	1	SHLD A2 E1					.37 .37	NO NO			
A	2L		P1-G P2-2					.22 .10	NO NO		17 16	
A	2R		P1-F E5					.22 .37	NO NO		17	
A	3	2			2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A	3A	1	SHLD A3 P1-KK					.37 .22	NO NO		17	
A	3L		P1-J P2-29					.22 .10	NO NO		17 16	
A	3R		P1-H P2-28					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR C | SHEET 7 OF 14

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	4A	1	SHLD A4 E1					.37 .37	NO NO			
A	4L		P1-L P2-60					.22 .10	NO NO		17 16	
A	4R		P1-K P2-50					.22 .10	NO NO		17 16	
A	5	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	5A	1	SHLD A5 E1					.37 .37	NO NO			
A	5L		P1-N P2-6					.22 .10	NO NO		17 16	
A	5R		P1-M P2-20					.22 .10	NO NO		17 16	
A	6	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	6A	1	SHLD A6 E2					.37 .37	NO NO			
A	6L		P1-R P2-21					.22 .10	NO NO		17 16	
A	6R		P1-P P2-7					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR C | SHEET 8 OF 14

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	7A	1	SHLD A7 E2					.37 .37	NO NO			
A	7L		P1-B* P2-11					.22 .10	NO NO		17 16	
A	7R		P1-A* P2-25					.22 .10	NO NO		17 16	
A	8	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	8A	1	SHLD A8 E2					.37 .37	NO NO			
A	8L		P1-D* P2-66					.22 .10	NO NO		17 16	
A	8R		P1-C* P2-56					.22 .10	NO NO		17 16	
A	9	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	9A	1	SHLD A9 E2					.37 .37	NO NO			
A	9L		P1-F* P2-67					.22 .10	NO NO		17 16	
A	9R		P1-E* P2-57					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR C | SHEET 9 OF 14

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10	2				2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A 10A	1		SHLD A10 E3					.37 .37	NO NO			
A 10L			P1-H* P2-86					.22 .10	NO NO		17 16	
A 10R			P1-G* P2-100					.22 .10	NO NO		17 16	
A 11	2				2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A 11A	1		SHLD A11 P1-AA					.37 .22	NO NO		17	
A 11L			P1-J* P2-101					.22 .10	NO NO		17 16	
A 11R			P1-I* P2-87					.22 .10	NO NO		17 16	
A 12	2				2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A 12A	1		SHLD A12 P1-BB					.37 .22	NO NO		17	
A 12L			P1-M* P2-104					.22 .10	NO NO		17 16	
A 12R			P1-K* P2-90					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 10 OF 14

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	3				3.80 3.80	3.50 3.50				1 2	A 13, 10, 8 A 13	
A 13A	1		SHLD A13 E3					.37 .37	NO NO			
A 13L			P1-T P2-34					.22 .10	NO NO		17 16	
A 13R			P1-S P2-45					.22 .10	NO NO		17 16	
A 13Y			P1-U P2-35					.22 .10	NO NO		17 16	
A 14	3				3.80 3.80	3.50 3.50				1 2	A 13, 10, 8 A 13	
A 14A	1		SHLD A14 P1-U*					.37 .22	NO NO		17	
A 14L			P1-S* P2-108					.22 .10	NO NO		17 16	
A 14R			P1-R* P2-107					.22 .10	NO NO		17 16	
A 14Y			P1-T* P2-94					.22 .10	NO NO		17 16	
A 15	4				2.30 2.30	2.00 2.00				3 3	A 13, 11, 12 A 13, 11, 12	
A 15A	1		SHLD A15 P1-X*					.37 .22	NO NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 11 OF 14

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	1		P2-92 SHLD A15					.10 .37	NO NO		16	
A 15E			P1-W* P2-106					.22 .10	NO NO		17 16	
A 16	3				3.80 3.80	3.50 3.50				1 2	A 13, 10, 8 A 13	
A 16A	1		SHLD A16 E3					.37 .37	NO NO			
A 16L			P1-P* P2-32					.22 .10	NO NO		17 16	
A 16R			P1-N* P2-31					.22 .10	NO NO		17 16	
A 16Y			P1-Q* P2-43					.22 .10	NO NO		17 16	
A 17	5		E1 E4					.37 .37	NO NO			
A 18	5		E2 E4					.37 .37	NO NO			
A 19	5		E3 E4					.37 .37	NO NO			
A 20	5		E4 P1-8					.37 .22	NO NO		17	
A 21	1		P2-41 E6					.10 .37	NO NO		16	

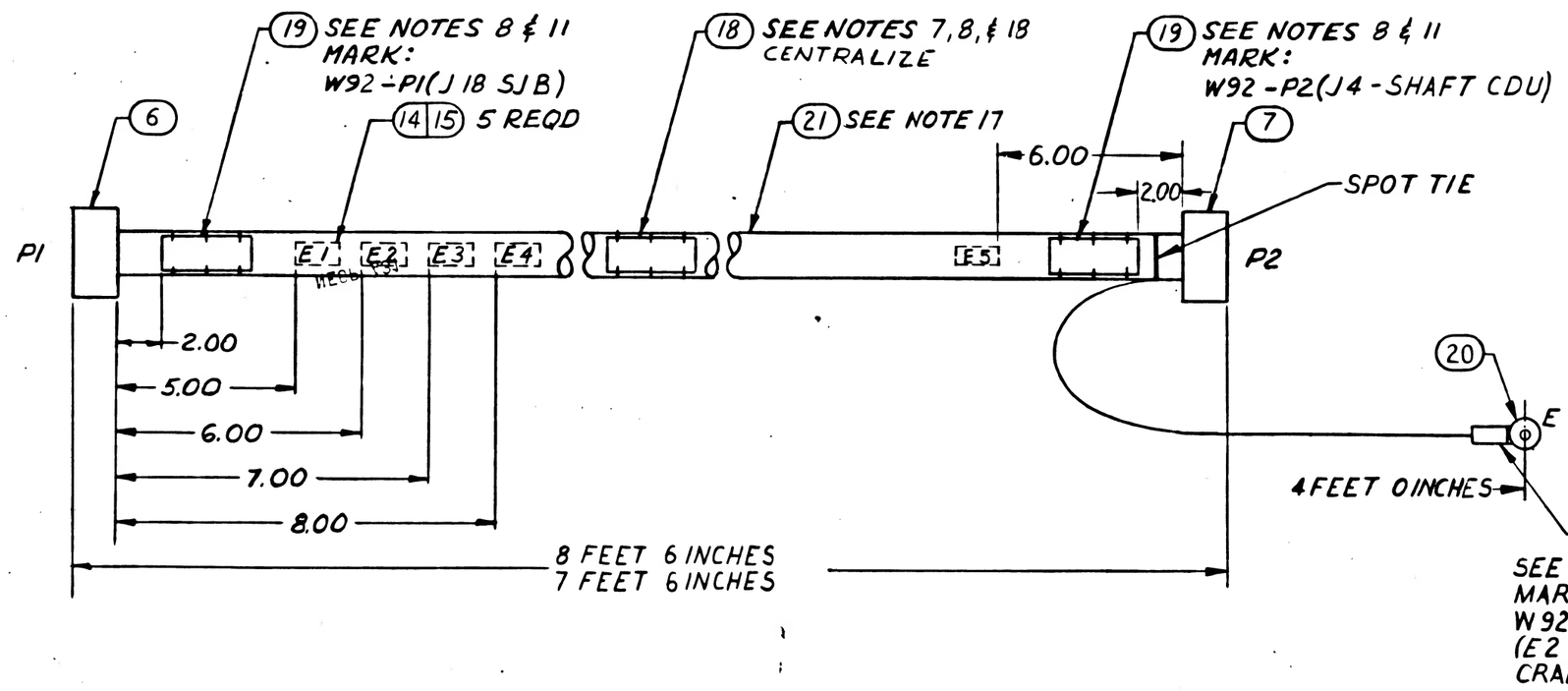
MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 12 OF 14

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 22	1		E5 P2-3					.37 .10	NO NO		16	
A 23	1		E5 P2-5					.37 .10	NO NO		16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 13 OF 14

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE-INCHES
(EXCEPT LENGTH)
±.50

1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 28 JAN 65
CHECKED J. Lima 1 FEB 65
APPROVAL E Piccini 3 FEB 65
APPROVAL D. M. Watson 2-26-65
NASA APPROVAL R.C. Wilkinson MAR 26 1965
MIT APPROVAL W. Hoffman MAR 28 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W92

CODE IDENT NO. | SIZE C | 1902339
SCALE NONE | SHEET 14 OF 14

1902339 C 17

MIL 1077C-P

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902239-01	1902239-01	C	UPGRADED FOR CLASS A RELEASE	20MAR 65	JWP
		D	REVISED PER TDAR20515	3 JUL 65	JJJ MEM

REV
SHEET
REV STATUS REV D C C C C C C C C C C C C D
OF SHEETS SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14

AC SPARK PLUG DIVISION , GMC
MILWAUKEE,WISCONSIN

ACSP PN

DRAWN G MURRAY 28 JAN 65
CHECKED 1 FEB 65
APPROVAL 3 FEB 65
APPROVAL 3-24-65
NASA APPROVAL
MIT APPROVAL

CONTRACT NAS 9-497

SCALE A/ave

SHEET 1 OF 14

MANNED
SPACECRAFT CENTER
HOUSTON,TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W92

CODE IDENT NO. 99974
SIZE A
1902339
REV D

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION----
FIG.1 IS FIG.4 OF ND1002206
FIG.2 OF FIG.7 IS ND1002032
FIG.3 IS FIG.5 OF ND1002206

2 ASSEMBLE PER ND1002032

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

~~5 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~

~~6 SPIRALLING OF THE MARKING IS ALLOWED.~~

7 IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 HIGH COLOR WHITE

8 FASTEN MARKER SECURELY WITH ITEM 22. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS

9 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.

12 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

13 VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE-NONE	REV LTR X ± C	SHEET 2 OF 14

MIL 2004 4-63

NOTE GENERAL NOTES

NUMBER DESCRIPTION

15 THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
E - GRAY
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
Y - WHITE WITH YELLOW TRACER

16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.

17 SEAL ZIPPER TUBING PER ND1002153.

18 SERIALIZE PER ND1002023.

19 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH COLOR WHITE PER ND1002019. MARKING TO READ AWAY FROM ATTACHED ACCESSORY.

20 MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

21 A OR T PREFIX IN THE ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE-NONE	REV LTR X C	SHEET 3 OF 14

NOTE GENERAL NOTES

NUMBER DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE-NONE	REV LTR X C	SHEET 4 OF 14

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902339-001	WIRE ND1002181, TYPE 1, CLASS 1 WHT NO. 22AWG 11 FT. TOTAL LENGTH
	2	1	1902339-002	WIRE ND1002181, TYPE 2, CLASS 4 WHT JKT NO. 22AWG WHT/BLU, WHT/RED 96 FT. TOTAL LENGTH
	3	1	1902339-003	WIRE ND1002181, TYPE 3, CLASS 4 WHT JKT NO. 22AWG WHT/BLU, WHT/RED, WHT/YEL, 24 FT. TOT. LG
	4	1	1902339-004	WIRE COAXIAL MIL-C-17/69A RG188 A/U 8 FT TOT LG
	5	1	1902339-005	WIRE ND1002181 TYPE 1, CLASS 1, WHT NO. 20AWG 3 FT. TOTAL LENGTH
	6	1	MS3126F-24-61P	(1897047-610) CONNECTOR PLUG ELEC (CRIMP TYPE)
10	7	1	1897173- 2	CONNECTOR, RECEPTACLE ELEC
10	8	15	1000242- 11	FERRULE ELEC. COND
10	9	12	1000243- 10	FERRULE ELEC. COND
10	10	3	1000243- 11	FERRULE ELEC. COND
10	11	2	1000243- 4	FERRULE ELEC. COND
10	12	2	1000242- 4	FERRULE ELEC. COND
10	13	32	1010490-196	INSULATION SLEEVING ELEC
10	14	5	1016006-001	SPLICE REDUCER
10	15	5	1010490-256	INSULATION SLEEVING ELEC
10	16	108	1010738- 6	CONTACT CRIMP TYPE SOCKET

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE-NONE	REV LTR X C	SHEET 5 OF 14

MIL 2004 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	61	MS3192A-20A	(1896855-020) CONTACT, ELEC. PIN CRIMP
10	18	*2	1016128-011	BAND IDENTIFICATION
10	19	2	1016128-041	BAND IDENTIFICATION
10	20	1	1015902- 46	TERMINAL LUG
	21	1	1902339-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC, FLEXIBLE .75 DIA 8 FT. TOTAL LENGTH
13	22	AR	1012507-004	TAPE LACING AND TYING
10	23	1	~~1902339-007~~ 1016197-006 / ~~1016197-006~~	TUBING, ~~MODIFIED POLYVINYL CHLORIDE~~ FLEXIBLE SHRINK FIT 6 INCH TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE - NONE	REV LTR X X X D	SHEET 6 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	1A	1	SHLD A1 E1					.37 .37	NO NO			
A	1L		P1-E P2-14					.22 .10	NO NO		17 16	
A	1R		P1-D P2-1					.22 .10	NO NO		17 16	
A	2	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	2A	1	SHLD A2 E1					.37 .37	NO NO			
A	2L		P1-G P2-2					.22 .10	NO NO		17 16	
A	2R		P1-F E5					.22 .37	NO NO		17	
A	3	2			2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A	3A	1	SHLD A3 P1-KK					.37 .22	NO NO		17	
A	3L		P1-J P2-29					.22 .10	NO NO		17 16	
A	3R		P1-H P2-28					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE - NONE	REV LTR X C	SHEET 7 OF 14

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	4A	1	SHLD A4 E1					.37 .37	NO NO			
A	4L		P1-L P2-60					.22 .10	NO NO		17 16	
A	4R		P1-K P2-50					.22 .10	NO NO		17 16	
A	5	2			2.30 2.30	2.00 2.00				1 2	A 13, 9, 8 A 13	
A	5A	1	SHLD A5 E1					.37 .37	NO NO			
A	5L		P1-N P2-6					.22 .10	NO NO		17 16	
A	5R		P1-M P2-20					.22 .10	NO NO		17 16	
A	6	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	6A	1	SHLD A6 E2					.37 .37	NO NO			
A	6L		P1-R P2-21					.22 .10	NO NO		17 16	
A	6R		P1-P P2-7					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE - NONE	REV LTR X C	SHEET 8 OF 14

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	7A	1	SHLD A7 E2					.37 .37	NO NO			
A	7L		P1-B* P2-11					.22 .10	NO NO		17 16	
A	7R		P1-A* P2-25					.22 .10	NO NO		17 16	
A	8	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	8A	1	SHLD A8 E2					.37 .37	NO NO			
A	8L		P1-D* P2-66					.22 .10	NO NO		17 16	
A	8R		P1-C* P2-56					.22 .10	NO NO		17 16	
A	9	2			3.30 3.30	3.00 3.00				1 2	A 13, 9, 8 A 13	
A	9A	1	SHLD A9 E2					.37 .37	NO NO			
A	9L		P1-F* P2-67					.22 .10	NO NO		17 16	
A	9R		P1-E* P2-57					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902339
SCALE - NONE	REV LTR X C	SHEET 9 OF 14

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10	2				2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A 10A	1		SHLD A10 E3					.37 .37	NO NO			
A 10L			P1-H* P2-86					.22 .10	NO NO		17 16	
A 10R			P1-G* P2-100					.22 .10	NO NO		17 16	
A 11	2				2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A 11A	1		SHLD A11 P1-AA					.37 .22	NO NO		17	
A 11L			P1-J* P2-101					.22 .10	NO NO		17 16	
A 11R			P1-I* P2-87					.22 .10	NO NO		17 16	
A 12	2				2.80 2.80	2.50 2.50				1 2	A 13, 9, 8 A 13	
A 12A	1		SHLD A12 P1-BB					.37 .22	NO NO		17	
A 12L			P1-M* P2-104					.22 .10	NO NO		17 16	
A 12R			P1-K* P2-90					.22 .10	NO NO		17 16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 10 OF 14

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	3				3.80 3.80	3.50 3.50				1 2	A 13, 10, 8 A 13	
A 13A	1		SHLD A13 E3					.37 .37	NO NO			
A 13L			P1-T P2-34					.22 .10	NO NO		17 16	
A 13R			P1-S P2-45					.22 .10	NO NO		17 16	
A 13Y			P1-U P2-35					.22 .10	NO NO		17 16	
A 14	3				3.80 3.80	3.50 3.50				1 2	A 13, 10, 8 A 13	
A 14A	1		SHLD A14 P1-U*					.37 .22	NO NO		17	
A 14L			P1-S* P2-108					.22 .10	NO NO		17 16	
A 14R			P1-R* P2-107					.22 .10	NO NO		17 16	
A 14Y			P1-T* P2-94					.22 .10	NO NO		17 16	
A 15	4				2.30 2.30	2.00 2.00				3 3	A 13, 11, 12 A 13, 11, 12	
A 15A	1		SHLD A15 P1-X*					.37 .22	NO NO		17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 11 OF 14

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	1		P2-92 SHLD A15					.10 .37	NO NO		16	
A 15E			P1-W* P2-106					.22 .10	NO NO		17 16	
A 16	3				3.80 3.80	3.50 3.50				1 2	A 13, 10, 8 A 13	
A 16A	1		SHLD A16 E3					.37 .37	NO NO			
A 16L			P1-P* P2-32					.22 .10	NO NO		17 16	
A 16R			P1-N* P2-31					.22 .10	NO NO		17 16	
A 16Y			P1-Q* P2-43					.22 .10	NO NO		17 16	
A 17	5		E1 E4					.37 .37	NO NO			
A 18	5		E2 E4					.37 .37	NO NO			
A 19	5		E3 E4					.37 .37	NO NO			
A 20	5		E4 P1-B					.37 .22	NO NO		17	
A 21	1		P2-41 E6					.10 .37	NO NO		16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 12 OF 14

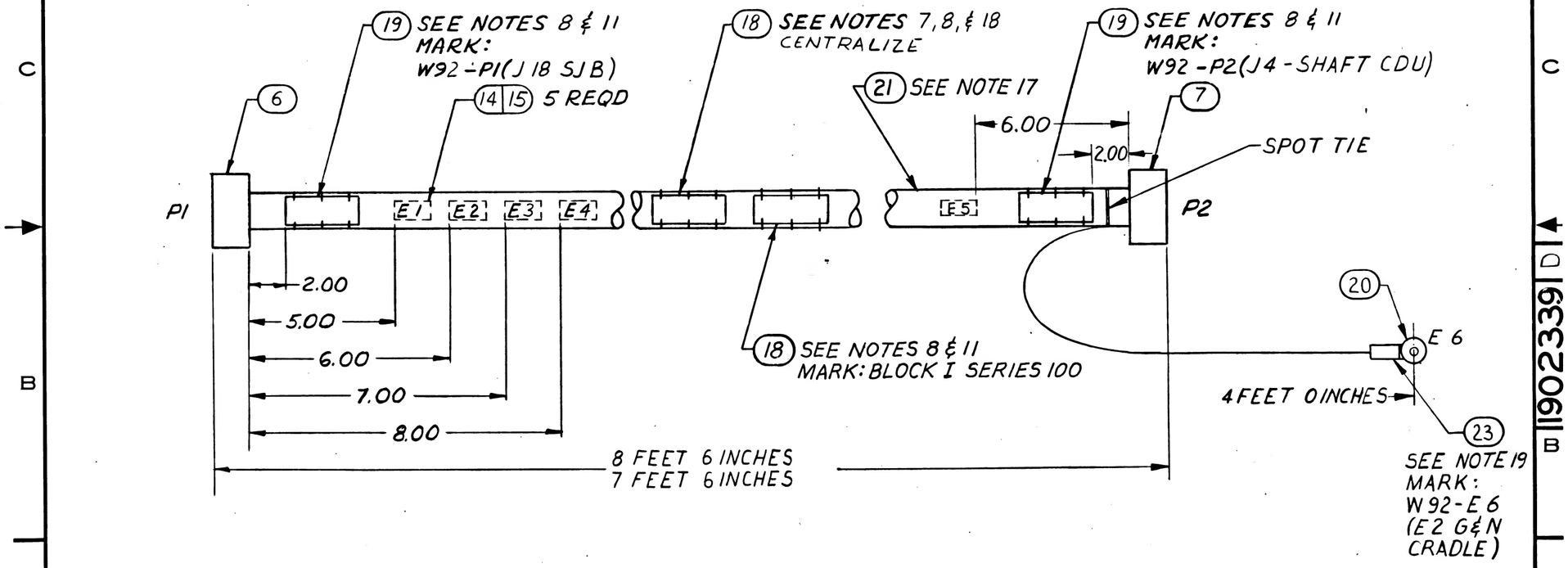
MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 22	1		E5 P2-3					.37 .10	NO NO		16	
A 23	1		E5 P2-5					.37 .10	NO NO		16	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902339 | SCALE-NONE | REV LTR X C | SHEET 13 OF 14

MIL 2064 4-63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
M		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE - INCHES
(EXCEPT LENGTH)
±.50

1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Munro 28 JAN 65 DATE
CHECKED L. Lima 1 FEB 65
APPROVAL L Pisini 3 FEB 65
APPROVAL W. Watson 2-26-65
NASA APPROVAL Q.C.
MIT APPROVAL W Gryder

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W 92

CODE IDENT NO.	SIZE	
99974	C	1902339
SCALE NONE		SHEET 14 OF 14

1902339 D

MIL 1077C-P

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	D	UPGRADED FOR CLASS A RELEASE PER IDKR 17840	22 MAR 65	JWP

REV															
SHEET															
REV STATUS	REV.	D	D	D	D	D	D	D	D	D	D	D	D	D	D
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 3 FEB 65

CHECKED W. Diehl 8 FEB '65

APPROVAL K. Perini 8 FEB '65

APPROVAL 3-25-65

NASA APPROVAL MAR 26 1965

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W95

CODE IDENT NO.	SIZE		REV
	A	1902340	D

SCALE —

SHEET 1 OF 15

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION---- FIG.1 IS FIG.4 OF ND1002206 FIG.2 IS FIG.7 OF ND1002032 FIG.3 IS FIG.5 OF ND1002206
2	ASSEMBLE PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE CONDUCTORS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE
8	ITEMS 8 AND 9 FURNISHED WITH ITEMS 6 AND 7
9	A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 IN. HIGH COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.
12	MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	SEAL ZIPPER TUBING PER ND1002153.
14	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 2 OF 15

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER
16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
17	FASTEN MARKER SECURELY WITH ITEM 24 . WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
18	SERIALIZE PER ND1002023
19	MARK SLEEVING OF MULTI-CONDUCTORS WITH THE CONDUCTOR NUMBER. 12 INCH HIGH, COLOR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD
20	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 3 OF 15

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 4 OF 15

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902340-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 22AWG 12 FT. TOTAL LENGTH
	2	1	1902340-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 20AWG 93 FT. TOTAL LENGTH
	3	1	1902340-003	WIRE ND1002181, TYPE 2, CLASS 4, WHT. JKT. NO. 20AWG, WHT/BLU, WHT/RED 252 FT TOTAL LENGTH
	4	1	1902340-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT., NO 20AWG, WHT/BLU, WHT/RED, WHT/YEL, 36 FT. TOT LG
	5	1	1902340-005	WIRE COAXIAL MIL-C-17/69A, RG 188 A/U, 54 FT TOTAL LENGTH.
	6	1	MS3126F-24-61PZ	(1897047-614) CONN. ELEC PIN CRIMP TYPE
	7	1	MS3126F-24-61SY	(1897048-613) CONN. ELEC SOCKET CRIMP TYPE
	8	50	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP
	9	49	MS3193A-20A	(1896877-020) CONTACT ELEC SOCKET CRIMP
10	10	6	10002A3- 4	FERRULE ELEC COND.
10	11	6	10002A2- 4	FERRULE ELEC COND.
10	12	2	10002A3- 15	FERRULE ELEC COND.
10	13	2	10002A2- 16	FERRULE ELEC COND.
10	14	18	10002A3- 14	FERRULE ELEC COND.
10	15	18	10002A2- 12	FERRULE ELEC COND.
10	16	20	1010490-194	INSULATION SLEEVING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 5 OF 15

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
10	17	12	1010490-196	INSULATION SLEEVING
10	18	1	1010490-228	INSULATION SLEEVING
10	19	3	1010490-226	INSULATION SLEEVING
10	20	1	1016006-002	SPLICE REDUCER
10	21	3	1016006-001	SPLICE REDUCER
10	22	1	1016128-011	BAND IDENTIFICATION
10	23	2	1016128-041	BAND IDENTIFICATION
14	24	AR	1012507-004	TAPE, LACING AND TYING
	25	1	1902340-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE 1 IN. DIA. 18 FT. TOTAL LENGTH
10	26	6	1010490-198	INSULATION SLEEVING

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			2.30 2.30	2.00 2.00				1 2	A 16, 12, 13 A 17	
A	1A	1	SHLD A1 E1					.37 .37	NO NO			
A	1L		P1-E P2-E					.22 .22	NO NO		8 9	
A	1R		P1-D P2-D					.22 .22	NO NO		8 9	
A	1Y		P1-F P2-F					.22 .22	NO NO		8 9	
A	2	5			2.30 2.30	2.00 2.00				3 3	A 26, 10, 11 A 26, 10, 11	
A	2A	1	SHLD A2 P1-J					.37 .22	NO NO		8	
A	2B	1	P2-J SHLD A2					.22 .37	NO NO		9	
A	2E		P1-H P2-H					.22 .22	NO NO		8 9	
A	3	3			2.30 2.30	2.00 2.00				3 3	A 16, 14, 15 A 16, 14, 15	
A	3A	1	SHLD A3 P1-Z*					.37 .22	NO NO		8	
A	3B	1	P2-Z* SHLD A3					.22 .37	NO NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3L		P1-L P2-L					.22 .22	NO NO		8 9	
A	3R		P1-K P2-K					.22 .22	NO NO		8 9	
A	4	3			2.80 2.80	2.50 2.50				1 2	A 16, 14, 15 A 17	
A	4A	1	SHLD A4 E1					.37 .37	NO NO			
A	4L		P1-N P2-N					.22 .22	NO NO		8 9	
A	4R		P1-M P2-M					.22 .22	NO NO		8 9	
A	5	3			2.80 2.80	2.50 2.50				1 2	A 16, 14, 15 A 17	
A	5A	1	SHLD A5 E1					.37 .37	NO NO			
A	5L		P1-R P2-R					.22 .22	NO NO		8 9	
A	5R		P1-P P2-P					.22 .22	NO NO		8 9	
A	6	3			2.80 2.80	2.50 2.50				1 2	A 16, 14, 15 A 17	
A	6A	1	SHLD A6 E1					.37 .37	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P1-T P2-T					.22 .22	NO NO		8 9	
A	6R		P1-S P2-S					.22 .22	NO NO		8 9	
A	7	4			2.80 2.80	2.50 2.50				1 2	A 16, 12, 13 A 17	
A	7A	1	SHLD A7 E2					.37 .37	NO NO			
A	7L		P1-V P2-V					.22 .22	NO NO		8 9	
A	7R		P1-U P2-U					.22 .22	NO NO		8 9	
A	7Y		P1-W P2-W					.22 .22	NO NO		8 9	
A	8	2	P1-A* P2-A*					.22 .22	NO NO		8 9	
A	9	5			2.30 2.30	2.00 2.00				3 3	A 26, 10, 11 A 26, 10, 11	
A	9A	1	SHLD A9 P1-C*					.37 .22	NO NO		8	
A	9B	1	P2-C* SHLD A9					.22 .37	NO NO		9	
A	9E		P1-B* P2-B*					.22 .22	NO NO		8 9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10	3				3.30	3.00				3	A 16, 14, 15	
					3.30	3.00				3	A 16, 14, 15	
A 10A	1		SHLD A10					.37	NO			
			P1-Y*					.22	NO		8	
A 10B	1		P2-Y*					.22	NO		9	
			SHLD A10					.37	NO			
A 10L			P1-F*					.22	NO		8	
			P2-F*					.22	NO		9	
A 10R			P1-E*					.22	NO		8	
			P2-E*					.22	NO		9	
A 11	3				3.30	3.00				1	A 16, 14, 15	
					3.30	3.00				2	A 17	
A 11A	1		SHLD A11					.37	NO			
			E2					.37	NO			
A 11L			P1-H*					.22	NO		8	
			P2-H*					.22	NO		9	
A 11R			P1-G*					.22	NO		8	
			P2-G*					.22	NO		9	
A 12	3				3.30	3.00				1	A 16, 14, 15	
					3.30	3.00				2	A 17	
A 12A	1		SHLD A12					.37	NO			
			E2					.37	NO			
A 12L			P1-J*					.22	NO		8	
			P2-J*					.22	NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 10 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 12R			P1-I*					.22	NO		8	
			P2-I*					.22	NO		9	
A 13	3				3.30	3.00				1	A 16, 14, 15	
					3.30	3.00				2	A 17	
A 13A	1		SHLD A13					.37	NO			
			E2					.37	NO			
A 13L			P1-M*					.22	NO		8	
			P2-M*					.22	NO		9	
A 13R			P1-K*					.22	NO		8	
			P2-K*					.22	NO		9	
A 14	2		P1-D*					.22	NO		8	
			P2-D*					.22	NO		9	
A 15	3				3.80	3.50				1	A 16, 14, 15	
					3.80	3.50				2	A 17	
A 15A	1		SHLD A15					.37	NO			
			E3					.37	NO			
A 15L			P1-P*					.22	NO		8	
			P2-P*					.22	NO		9	
A 15R			P1-N*					.22	NO		8	
			P2-N*					.22	NO		9	
A 16	3				3.80	3.50				1	A 16, 14, 15	
					3.80	3.50				2	A 17	
A 16A	1		SHLD A16					.37	NO			
			E3					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 11 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16L			P1-R*					.22	NO		8	
			P2-R*					.22	NO		9	
A 16R			P1-Q*					.22	NO		8	
			P2-Q*					.22	NO		9	
A 17	3				3.80	3.50				3	A 16, 14, 15	
					3.80	3.50				3	A 16, 14, 15	
A 17A	1		SHLD A17					.37	NO			
			P1-PP					.22	NO		8	
A 17B	1		P2-PP					.22	NO		9	
			SHLD A17					.37	NO			
A 17L			P1-T*					.22	NO		8	
			P2-T*					.22	NO		9	
A 17R			P1-S*					.22	NO		8	
			P2-S*					.22	NO		9	
A 18	3				3.80	3.50				1	A 16, 14, 15	
					3.80	3.50				2	A 17	
A 18A	1		SHLD A18					.37	NO			
			E3					.37	NO			
A 18L			P1-X*					.22	NO		8	
			P2-X*					.22	NO		9	
A 18R			P1-W*					.22	NO		8	
			P2-W*					.22	NO		9	
A 19			DELETED									

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 12 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 19A			DELETED									
A 19L			DELETED									
A 19R			DELETED									
A 20	3				4.30	4.00				1	A 16, 14, 15	
					4.30	4.00				2	A 17	
A 20A	1		SHLD A20					.37	NO			
			E3					.37	NO			
A 20L			P1-NN					.22	NO		8	
			P2-NN					.22	NO		9	
A 20R			P1-MM					.22	NO		8	
			P2-MM					.22	NO		9	
A 21	2		P1-AA					.22	NO		8	
			P2-AA					.22	NO		9	
A 22	2		P1-BB					.22	NO		8	
			P2-BB					.22	NO		9	
A 23	2		P1-CC					.22	NO		8	
			P2-CC					.22	NO		9	
A 24	2		E1					.37	NO			
			E4					.37	NO			
A 25	2		E2					.37	NO			
			E4					.37	NO			

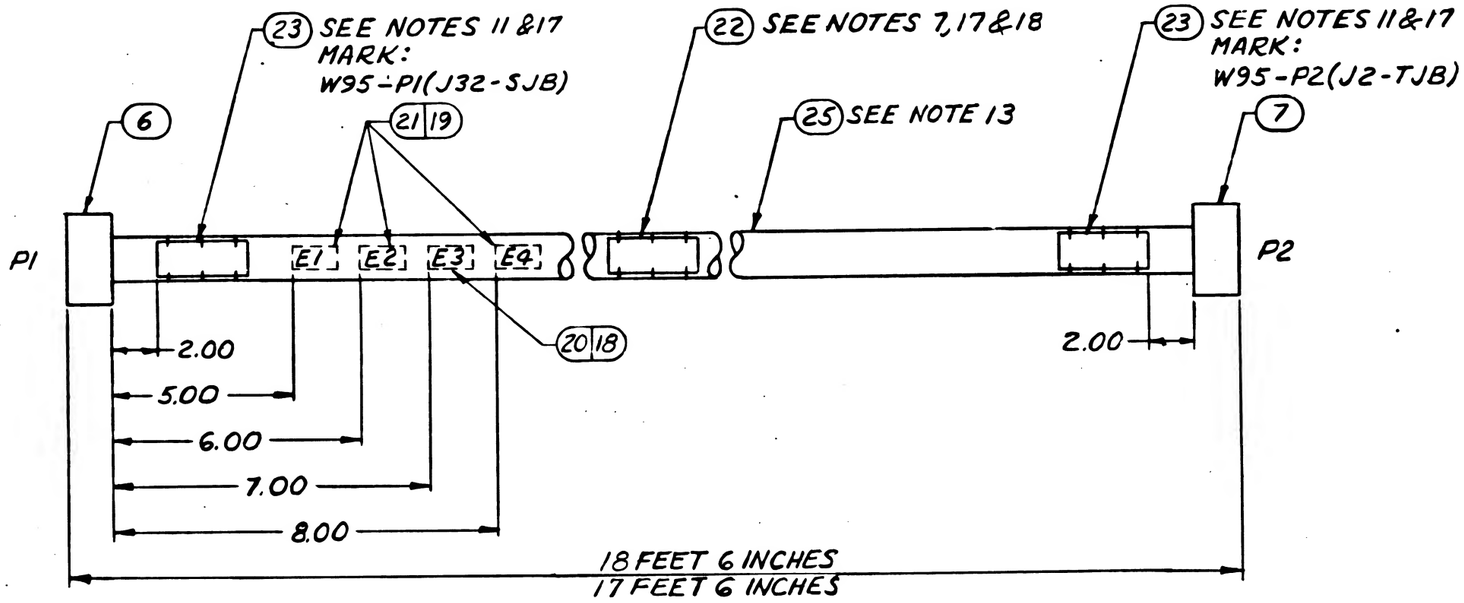
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 13 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	26	2	E3					.37	NO			
			E4					.37	NO			
A	27	2	E4					.37	NO			
			P1-B					.22	NO		8	
A	28	3			1.75	1.50				3	A 16, 14, 15	
					1.75	1.50				3	A 16, 14, 15	
A	28A	1	SHLD A28					.37	NO			
			P1-Z					.22	NO		8	
A	28B	1	P2-Z					.22	NO		9	
			SHLD A28					.37	NO			
A	28L		P1-Y					.22	NO		8	
			P2-Y					.22	NO		9	
A	28R		P1-X					.22	NO		8	
			P2-X					.22	NO		9	
A	29	5			4.30	4.00				3	A 26, 10, 11	
					4.30	4.00				3	A 26, 10, 11	
A	29A	1	SHLD A28				.37		NO			
			P1-LL				.22		NO		8	
A	29B	1	P2-LL				.22		NO		9	
			SHLD A28				.37		NO			
A	29E		P1-KK				.22		NO		8	
			P2-KK				.22		NO		9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR X D	SHEET 14 OF 15

1902340

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
	—	SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE
(EXCEPT LENGTH)
±.50

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Olson DATE 3 FEB
CHECKED W. Diehl 8 FEB '65
APPROVAL R. Perini 8 FEB '65
APPROVAL J. M. Watson 3-25-65
NASA APPROVAL MAR 26 1965
MIT APPROVAL MAR 26 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W95

CODE IDENT NO.	SIZE	
	C	1902340
SCALE NONE		SHEET 15 OF 15

MIL 1077C-P

1902340

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011 M)	D	UPGRADED FOR CLASS A RELEASE PER TDRR 17840	22 MAR 65	JWP
		E	REVISED PER TDRR 20511	2 JUL 65	JJJ mem

REV.															
SHEET															
REV STATUS	REV.	E	D	D	D	D	E	D	D	D	D	D	D	D	E
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 3 FEB 65 DATE

CHECKED W Diehl 6 Feb '65

APPROVAL K Kivimi 6 FEB '65

APPROVAL 3-25-66

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W95

CODE IDENT NO.	SIZE		REV
99974	A	1902340	E

SCALE —

SHEET 1 OF 15

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION---- FIG.1 IS FIG.4 OF ND1002206 FIG.2 IS FIG.7 OF ND1002032 FIG.3 IS FIG.5 OF ND1002206
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3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
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~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
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12	MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	SEAL ZIPPER TUBING PER ND1002153.
14	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
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16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
17	FASTEN MARKER SECURELY WITH ITEM 24 . WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
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20	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
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	2	1	1902340-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 20AWG 93 FT. TOTAL LENGTH
	3	1	1902340-003	WIRE ND1002181, TYPE 2, CLASS 4, WHT. JKT. NO. 20AWG, WHT/BLU, WHT/RED 252 FT TOTAL LENGTH
	4	1	1902340-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT., NO 20AWG, WHT/BLU, WHT/RED, WHT/YEL, 36 FT. TOT LG
	5	1	1902340-005	WIRE COAXIAL MIL-C-17/69A, RG 188 A/U, 54 FT TOTAL LENGTH.
	6	1	MS3126F-24-61PZ	(1897047-614) CONN. ELEC PIN CRIMP TYPE
	7	1	MS3126F-24-61SY	(1897048-613) CONN. ELEC SOCKET CRIMP TYPE
	8	50	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP
	9	49	MS3193A-20A	(1896877-020) CONTACT ELEC SOCKET CRIMP
10	10	6	10002 43- 4	FERRULE ELEC COND.
10	11	6	10002 42- 4	FERRULE ELEC COND.
10	12	2	10002 43- 15	FERRULE ELEC COND.
10	13	2	10002 42- 16	FERRULE ELEC COND.
10	14	18	10002 43- 14	FERRULE ELEC COND.
10	15	18	10002 42- 12	FERRULE ELEC COND.
10	16	20	1010490-194	INSULATION SLEEVING

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
10	17	12	1010490-196	INSULATION SLEEVING
10	18	1	1010490-228	INSULATION SLEEVING
10	19	3	1010490-226	INSULATION SLEEVING
10	20	1	1016006-002	SPLICE REDUCER
10	21	3	1016006-001	SPLICE REDUCER
10	22	≠2	1016128-011	BAND IDENTIFICATION
10	23	2	1016128-041	BAND IDENTIFICATION
14	24	AR	1012507-004	TAPE, LACING AND TYING
	25	1	1902340-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE 1 IN. DIA. 18 FT. TOTAL LENGTH
10	26	6	1010490-198	INSULATION SLEEVING

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			2.30	2.00				1	A 16, 12, 13	
					2.30	2.00				2	A 17	
A	1A	1	SHLD A1					.37	NO			
			E1					.37	NO			
A	1L		P1-E					.22	NO		8	
			P2-E					.22	NO		9	
A	1R		P1-D					.22	NO		8	
			P2-D					.22	NO		9	
A	1Y		P1-F					.22	NO		8	
			P2-F					.22	NO		9	
A	2	5			2.30	2.00				3	A 26, 10, 11	
					2.30	2.00				3	A 26, 10, 11	
A	2A	1	SHLD A2					.37	NO			
			P1-J					.22	NO		8	
A	2B	1	P2-J					.22	NO		9	
			SHLD A2					.37	NO			
A	2E		P1-H					.22	NO		8	
			P2-H					.22	NO		9	
A	3	3			2.30	2.00				3	A 16, 14, 15	
					2.30	2.00				3	A 16, 14, 15	
A	3A	1	SHLD A3					.37	NO			
			P1-Z•					.22	NO		8	
A	3B	1	P2-Z•					.22	NO		9	
			SHLD A3					.37	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3L		P1-L					.22	NO		8	
			P2-L					.22	NO		9	
A	3R		P1-K					.22	NO		8	
			P2-K					.22	NO		9	
A	4	3			2.80	2.50				1	A 16, 14, 15	
					2.80	2.50				2	A 17	
A	4A	1	SHLD A4					.37	NO			
			E1					.37	NO			
A	4L		P1-N					.22	NO		8	
			P2-N					.22	NO		9	
A	4R		P1-M					.22	NO		8	
			P2-M					.22	NO		9	
A	5	3			2.80	2.50				1	A 16, 14, 15	
					2.80	2.50				2	A 17	
A	5A	1	SHLD A5					.37	NO			
			E1					.37	NO			
A	5L		P1-R					.22	NO		8	
			P2-R					.22	NO		9	
A	5R		P1-P					.22	NO		8	
			P2-P					.22	NO		9	
A	6	3			2.80	2.50				1	A 16, 14, 15	
					2.80	2.50				2	A 17	
A	6A	1	SHLD A6					.37	NO			
			E1					.37	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P1-T					.22	NO		8	
			P2-T					.22	NO		9	
A	6R		P1-S					.22	NO		8	
			P2-S					.22	NO		9	
A	7	4			2.80	2.50				1	A 16, 12, 13	
					2.80	2.50				2	A 17	
A	7A	1	SHLD A7					.37	NO			
			E2					.37	NO			
A	7L		P1-V					.22	NO		8	
			P2-V					.22	NO		9	
A	7R		P1-U					.22	NO		8	
			P2-U					.22	NO		9	
A	7Y		P1-W					.22	NO		8	
			P2-W					.22	NO		9	
A	8	2	P1-A•					.22	NO		8	
			P2-A•					.22	NO		9	
A	9	5			2.30	2.00				3	A 26, 10, 11	
					2.30	2.00				3	A 26, 10, 11	
A	9A	1	SHLD A9					.37	NO			
			P1-C•					.22	NO		8	
A	9B	1	P2-C•					.22	NO		9	
			SHLD A9					.37	NO			
A	9E		P1-B•					.22	NO		8	
			P2-B•					.22	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	10	3			3.30 3.30	3.00 3.00				3 3	A 16, 14, 15 A 16, 14, 15	
A	10A	1	SHLD A10 P1-Y•					.37 .22	NO NO		8	
A	10B	1	P2-Y• SHLD A10					.22 .37	NO NO		9	
A	10L		P1-F• P2-F•					.22 .22	NO NO		8 9	
A	10R		P1-E• P2-E•					.22 .22	NO NO		8 9	
A	11	3			3.30 3.30	3.00 3.00				1 2	A 16, 14, 15 A 17	
A	11A	1	SHLD A11 E2					.37 .37	NO NO			
A	11L		P1-H• P2-H•					.22 .22	NO NO		8 9	
A	11R		P1-G• P2-G•					.22 .22	NO NO		8 9	
A	12	3			3.30 3.30	3.00 3.00				1 2	A 16, 14, 15 A 17	
A	12A	1	SHLD A12 E2					.37 .37	NO NO			
A	12L		P1-J• P2-J•					.22 .22	NO NO		8 9	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 10 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12R		P1-I• P2-I•					.22 .22	NO NO		8 9	
A	13	3			3.30 3.30	3.00 3.00				1 2	A 16, 14, 15 A 17	
A	13A	1	SHLD A13 E2					.37 .37	NO NO			
A	13L		P1-M• P2-M•					.22 .22	NO NO		8 9	
A	13R		P1-K• P2-K•					.22 .22	NO NO		8 9	
A	14	2	P1-D• P2-D•					.22 .22	NO NO		8 9	
A	15	3			3.80 3.80	3.50 3.50				1 2	A 16, 14, 15 A 17	
A	15A	1	SHLD A15 E3					.37 .37	NO NO			
A	15L		P1-P• P2-P•					.22 .22	NO NO		8 9	
A	15R		P1-N• P2-N•					.22 .22	NO NO		8 9	
A	16	3			3.80 3.80	3.50 3.50				1 2	A 16, 14, 15 A 17	
A	16A	1	SHLD A16 E3					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 11 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	16L		P1-R• P2-R•					.22 .22	NO NO		8 9	
A	16R		P1-Q• P2-Q•					.22 .22	NO NO		8 9	
A	17	3			3.80 3.80	3.50 3.50				3 3	A 16, 14, 15 A 16, 14, 15	
A	17A	1	SHLD A17 P1-PP					.37 .22	NO NO		8	
A	17B	1	P2-PP SHLD A17					.22 .37	NO NO		9	
A	17L		P1-T• P2-T•					.22 .22	NO NO		8 9	
A	17R		P1-S• P2-S•					.22 .22	NO NO		8 9	
A	18	3			3.80 3.80	3.50 3.50				1 2	A 16, 14, 15 A 17	
A	18A	1	SHLD A18 E3					.37 .37	NO NO			
A	18L		P1-X• P2-X•					.22 .22	NO NO		8 9	
A	18R		P1-W• P2-W•					.22 .22	NO NO		8 9	
A	19		DELETED									

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 12 OF 15

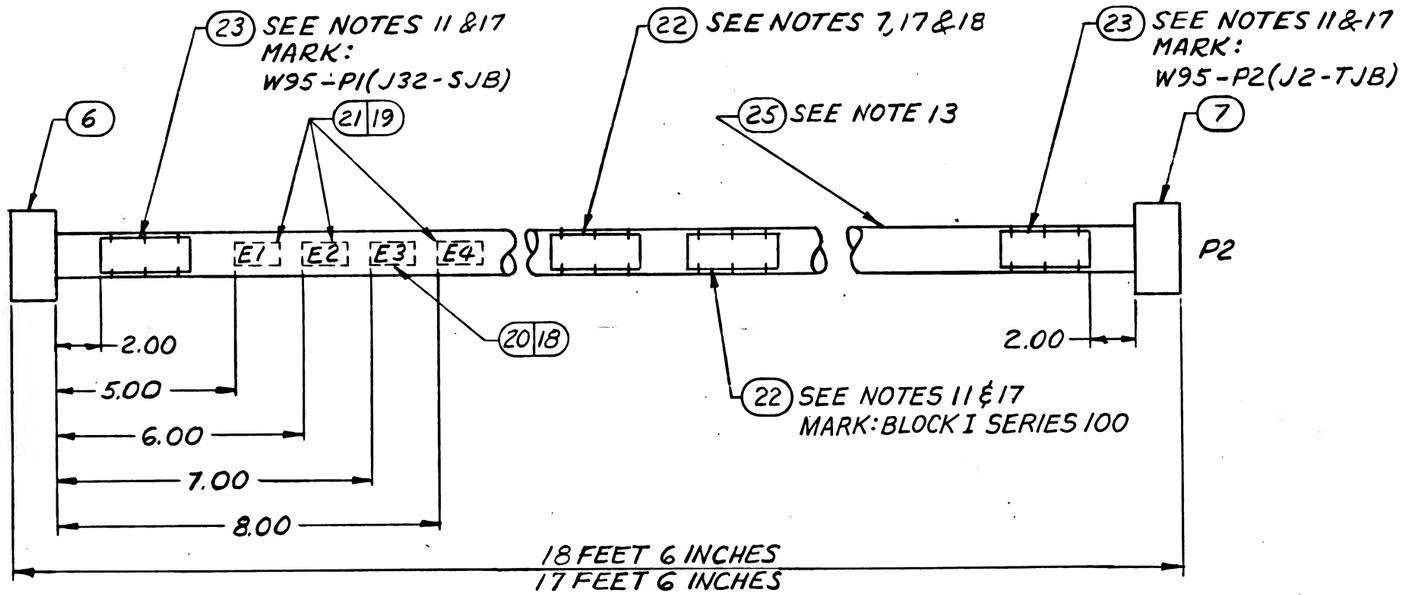
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	19A		DELETED									
A	19L		DELETED									
A	19R		DELETED									
A	20	3			4.30 4.30	4.00 4.00				1 2	A 16, 14, 15 A 17	
A	20A	1	SHLD A20 E3					.37 .37	NO NO			
A	20L		P1-NN P2-NN					.22 .22	NO NO		8 9	
A	20R		P1-MM P2-MM					.22 .22	NO NO		8 9	
A	21	2	P1-AA P2-AA					.22 .22	NO NO		8 9	
A	22	2	P1-BB P2-BB					.22 .22	NO NO		8 9	
A	23	2	P1-CC P2-CC					.22 .22	NO NO		8 9	
A	24	2	E1 E4					.37 .37	NO NO			
A	25	2	E2 E4					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902340
SCALE - NONE	REV LTR D	SHEET 13 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	26	2	E3					.37	NO			
			E4					.37	NO			
A	27	2	E4					.37	NO			
			P1-B					.22	NO		8	
A	28	3			1.75	1.50				3	A 16, 14, 15	
					1.75	1.50				3	A 16, 14, 15	
A	28A	1	SHLD A28					.37	NO			
			P1-Z					.22	NO		8	
A	28B	1	P2-Z					.22	NO		9	
			SHLD A28					.37	NO			
A	28L		P1-Y					.22	NO		8	
			P2-Y					.22	NO		9	
A	28R		P1-X					.22	NO		8	
			P2-X					.22	NO		9	
A	29	5			4.30	4.00				3	A 26, 10, 11	
					4.30	4.00				3	A 26, 10, 11	
A	29A	1	SHLD A28				.37		NO			
			P1-LL				.22		NO		8	
A	29B	1	P2-LL				.22		NO		9	
			SHLD A28				.37		NO			
A	29E		P1-KK				.22		NO		8	
			P2-KK				.22		NO		9	

1902340

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
(M)		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE
(EXCEPT LENGTH)
±.50

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R.J. Olson DATE 3 FEB
CHECKED W. Dickl 8 FEB 65
APPROVAL R. Perini 8 FEB '65
APPROVAL J. M. Watson 3-25-65
NASA APPROVAL 1965
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W95

CODE IDENT NO.	SIZE	
99974	C	1902340
SCALE NONE		SHEET 15 OF 15

MIL 1077C-P

1902340

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	C	UPGRADED FOR CLASS A RELEASE PER TDRR 17840	22 MAR 65	JWP

REV															
SHEET															
REV STATUS OF SHEETS	REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R.P. LSON 1 FEB 65 DATE

CHECKED Jo Kina 4 FEB 65

APPROVAL K Morrison 4 Feb '65

APPROVAL J. M. Walker 3-25-65

NASA APPROVAL MAY 19 1965

MIT APPROVAL

CONTRACT NAS-9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W89

CODE IDENT NO.	SIZE		REV
	A	1902346	C

SCALE NONE SHEET 1 OF 15

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE.
8	FASTEN MARKER SECURELY WITH ITEM 19. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
9	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
12	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	SERIALIZE PER ND1002023.
14	ITEM 9 FURNISHED WITH ITEMS 5,6,7 AND 8.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER, OR WHITE WITH LETTER R Y - WHITE WITH YELLOW TRACER
16	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES
17	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE HOT IMPRESSION STAMPS PER ND1002019. CENTRALIZE
18	SEAL ZIPPER TUBING PER ND1002153.
19	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
20	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR [illegible] STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+ .50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902346-001	WIRE ND1002181, TYPE 1 CLASS 1, WHT NO. 22AWG 10 FT. TOTAL LENGTH
	2	1	1902346-002	WIRE ND1002181, TYPE 1 CLASS 1, WHT NO. 20AWG 2 FT. TOTAL LENGTH
	3	1	1902346-003	WIRE ND1002181, TYPE 2 CLASS 4, WHT JKT NO. 20AWG WHT/BLU, WHT/RED 560 FEET TOTAL LENGTH.
	4	1	1902346-004	WIRE ND1002181, TYPE 2, CLASS 1, T2 NO. 20AWG WHT. WITH LETTER L WHT WITH LETTER R, 28 FEET TOTAL LENGTH.
	5	1	MS3126F-24-61SW	(1897048-611) CONNECTOR, PLUG, ELEC CRIMP TYPE
	6	1	MS3126F-24-61SX	(1897048-612) CONNECTOR, PLUG, ELEC CRIMP TYPE
	7	1	MS3126F-20-41S	(1897044-410) CONNECTOR, PLUG, ELEC CRIMP TYPE
	8	1	MS3126F-24-61S	(1897048-610) CONNECTOR, PLUG, ELEC CRIMP TYPE
	9	224	MS3193A-20A	(1896877-020) CONTACT-ELEC SOCKET CRIMP
10	10	20	1000243- 14	FERRULE ELEC COND
10	11	20	1000242- 12	FERRULE ELEC COND
10	12	20	1010490-194	INSULATION SLEEVING
10	13	5	1010490-226	INSULATION SLEEVING
	14			DELETED (1010490-200).

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15			DELETED (1016006-001).
10	16	5	1016006-002	SPLICE REDUCER
	17	1	1902346-005	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE .50 DIA 3 FT. 4 IN. TOTAL LENGTH
	18	2	1902346-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE .63 DIA 3 FT. 4 IN. TOTAL LENGTH
9	19	AR	1011753	TAPE, LACING AND TYING
	20	1	1902346-007	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE 1 IN. DIA 25 FT. TOTAL LENGTH
10	21	4	1016128-041	BAND IDENTIFICATION
10	22	1	1016128-011	BAND IDENTIFICATION
10	23	20	1010490-196	INSULATION SLEEVING

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4										
A	1L		P4-BB P2-BB					.22 .22	NO NO		9 9	
A	1R		P4-AA P2-AA					.22 .22	NO NO		9 9	
A	2	3			2.30 2.30	2.00 2.00				4	A 12, 10, 11 A 23	
A	2A	1	SHLD A2 E1					.37 .37	NO NO			
A	2L		P4-GG P2-U					.22 .22	NO NO		9 9	
A	2R		P4-FF P2-T					.22 .22	NO NO		9 9	
A	3	3			2.30 2.30	2.00 2.00				4	A 12, 10, 11 A 23	
A	3A	1	SHLD A3 E1					.37 .37	NO NO			
A	3L		P4-NN P2-W					.22 .22	NO NO		9 9	
A	3R		P4-MM P2-V					.22 .22	NO NO		9 9	
A	4	3			2.30 2.30	2.00 2.00				4	A 12, 10, 11 A 23	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	INS STRIP TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4A	1	SHLD A4 E1					.37 .37	NO NO			
A	4L		P4-JJ P2-S					.22 .22	NO NO		9 9	
A	4R		P4-HH P2-R					.22 .22	NO NO		9 9	
A	5	3			2.30 2.30	2.00 2.00				4	A 12, 10, 11 A 23	
A	5A	1	SHLD A5 E1					.37 .37	NO NO			
A	5L		P4-F* P1-Y					.22 .22	NO NO		9 9	
A	5R		P4-E* P1-X					.22 .22	NO NO		9 9	
A	6	3			2.30 2.30	2.00 2.00				4	A 12, 10, 11 A 23	
A	6A	1	SHLD A6 E1					.37 .37	NO NO			
A	6L		P4-H* P1-P					.22 .22	NO NO		9 9	
A	6R		P4-G* P1-N					.22 .22	NO NO		9 9	
A	7	3			2.80 2.80	2.50 2.50				4	A 12, 10, 11 A 23	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 7A	1		SHLD A7					.37	NO			
			E2					.37	NO			
A 7L			P4-Q*					.22	NO		9	
			P1-Q*					.22	NO		9	
A 7R			P4-P*					.22	NO		9	
			P1-P*					.22	NO		9	
A 8	3				2.80	2.50				4	A 12, 10, 11	
					2.80	2.50					A 23	
A 8A	1		SHLD A8					.37	NO			
			E2					.37	NO			
A 8L			P4-S*					.22	NO		9	
			P1-S*					.22	NO		9	
A 8R			P4-R*					.22	NO		9	
			P1-R*					.22	NO		9	
A 9	3				2.80	2.50				4	A 12, 10, 11	
					2.80	2.50					A 23	
A 9A	1		SHLD A9					.37	NO			
			E2					.37	NO			
A 9L			P4-N*					.22	NO		9	
			P1-N*					.22	NO		9	
A 9R			P4-M*					.22	NO		9	
			P1-M*					.22	NO		9	
A 10	3				2.80	2.50				4	A 12, 10, 11	
					2.80	2.50					A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902346
SCALE - NONE	REV LTR X C	SHEET 9 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10A	1		SHLD A10					.37	NO			
			E2					.37	NO			
A 10L			P4-K*					.22	NO		9	
			P1-K*					.22	NO		9	
A 10R			P4-J*					.22	NO		9	
			P1-J*					.22	NO		9	
A 11	3				2.80	2.50				4	A 12, 10, 11	
					2.80	2.50					A 23	
A 11A	1		SHLD A11					.37	NO			
			E2					.37	NO			
A 11L			P4-B*					.22	NO		9	
			P1-B*					.22	NO		9	
A 11R			P4-A*					.22	NO		9	
			P1-A*					.22	NO		9	
A 12	3				3.30	3.00				4	A 12, 10, 11	
					3.30	3.00					A 23	
A 12A	1		SHLD A12					.37	NO			
			E3					.37	NO			
A 12L			P4-D*					.22	NO		9	
			P1-U					.22	NO		9	
A 12R			P4-C*					.22	NO		9	
			P1-T					.22	NO		9	
A 13	3				3.30	3.00				4	A 12, 10, 11	
					3.30	3.00					A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902346
SCALE - NONE	REV LTR X C	SHEET 10 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13A	1		SHLD A13					.37	NO			
			E3					.37	NO			
A 13L			P4-D					.22	NO		9	
			P3-D					.22	NO		9	
A 13R			P4-C					.22	NO		9	
			P3-C					.22	NO		9	
A 14	3				3.30	3.00				4	A 12, 10, 11	
					3.30	3.00					A 23	
A 14A	1		SHLD A14					.37	NO			
			E3					.37	NO			
A 14L			P4-F					.22	NO		9	
			P3-F					.22	NO		9	
A 14R			P4-E					.22	NO		9	
			P3-E					.22	NO		9	
A 15	3				3.30	3.00				4	A 12, 10, 11	
					3.30	3.00					A 23	
A 15A	1		SHLD A15					.37	NO			
			E3					.37	NO			
A 15L			P4-H					.22	NO		9	
			P3-H					.22	NO		9	
A 15R			P4-G					.22	NO		9	
			P3-G					.22	NO		9	
A 16	3				3.30	3.00				4	A 12, 10, 11	
					3.30	3.00					A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902346
SCALE - NONE	REV LTR X C	SHEET 11 OF 15

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16A	1		SHLD A16					.37	NO			
			E3					.37	NO			
A 16L			P4-K					.22	NO		9	
			P3-K					.22	NO		9	
A 16R			P4-J					.22	NO		9	
			P3-J					.22	NO		9	
A 17	3				3.80	3.50				4	A 12, 10, 11	
					3.80	3.50					A 23	
A 17A	1		SHLD A17					.37	NO			
			E4					.37	NO			
A 17L			P4-M					.22	NO		9	
			P3-M					.22	NO		9	
A 17R			P4-L					.22	NO		9	
			P3-L					.22	NO		9	
A 18	3				3.80	3.50				4	A 12, 10, 11	
					3.80	3.50					A 23	
A 18A	1		SHLD A18					.37	NO			
			E4					.37	NO			
A 18L			P4-P					.22	NO		9	
			P3-P					.22	NO		9	
A 18R			P4-N					.22	NO		9	
			P3-N					.22	NO		9	
A 19	3				3.80	3.50				4	A 12, 10, 11	
					3.80	3.50					A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902346
SCALE - NONE	REV LTR X C	SHEET 12 OF 15

CABLE W89 1902346 C X

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 19A	1		SHLD A19					.37	NO			
			E4					.37	NO			
A 19L			P4-S					.22	NO		9	
			P3-S					.22	NO		9	
A 19R			P4-R					.22	NO		9	
			P3-R					.22	NO		9	
A 20	3				3.80	3.50				4	A 12, 10, 11	
					3.80	3.50					A 23	
A 20A	1		SHLD A20					.37	NO			
			E4					.37	NO			
A 20L			P4-U					.22	NO		9	
			P3-U					.22	NO		9	
A 20R			P4-T					.22	NO		9	
			P3-T					.22	NO		9	
A 21			DELETED									
A 21L			DELETED									
A 21R			DELETED									
A 22	2		E1					.37	NO			
			E5					.37	NO			
A 23	2		E2					.37	NO			
			E5					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902346 | SCALE - NONE | REV LTR X C | SHEET 13 OF 15

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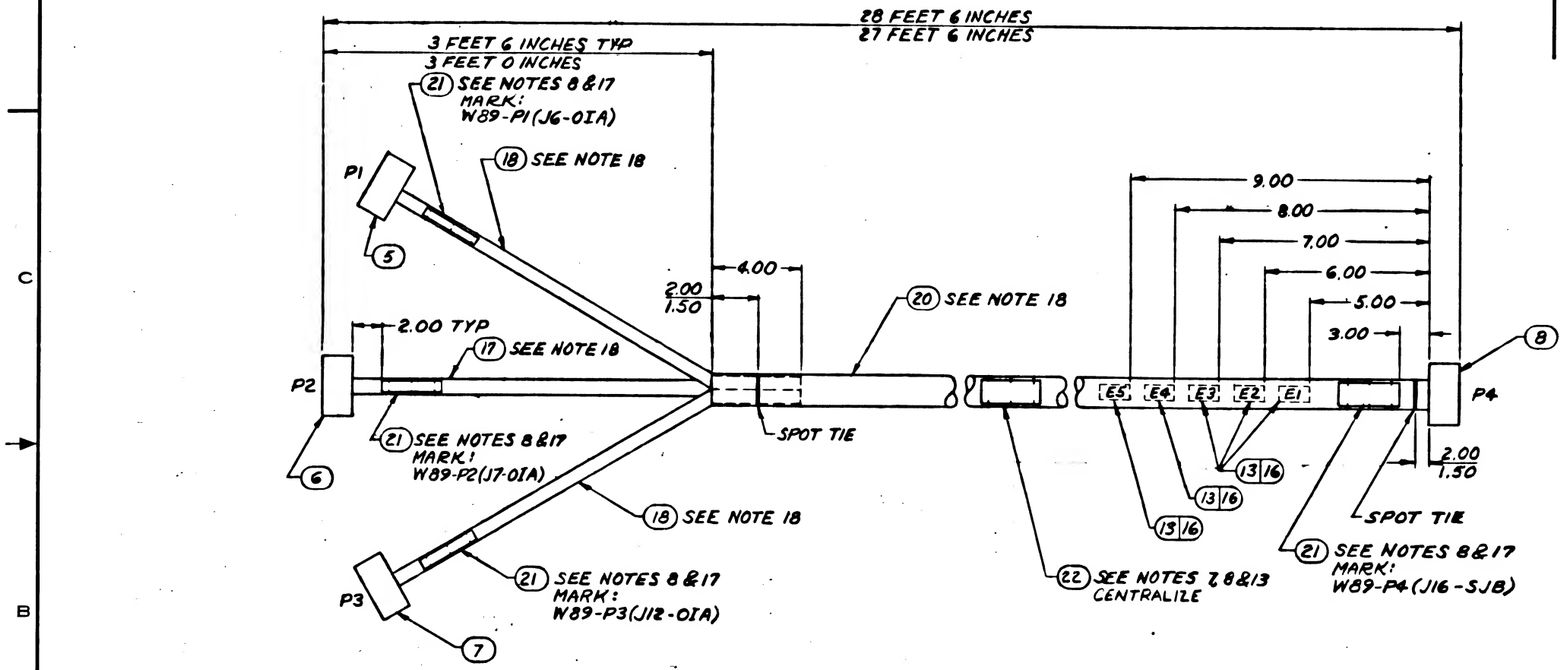
CABLE W89 1902346 C X

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 24	2		E3					.37	NO			
			E5					.37	NO			
A 25	2		E4					.37	NO			
			E5					.37	NO			
A 26	2		E5					.37	NO			
			P4-B					.22	NO		9	
A 27	3				3.80	3.50				4	A 12, 10, 11	
											A 23	
A 27A	1		SHLD A27					.37	NO			
			E4					.37	NO			
A 27L			P4-Z					.22	NO			
			P3-B*					.22	NO			
A 27R			P4-Y					.22	NO			
			P3-A*					.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902346 | SCALE - NONE | REV LTR X C | SHEET 14 OF 15

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REVISIONS 17840					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE INCHES
(EXCEPT LENGTH)
± .50

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		FRACTIONS ± — DECIMALS ± — ANGLES ± —	ACSP PN	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W89	
		DO NOT SCALE THIS DRAWING	DRAWN R. Lee 2 FEB 65 DATE		
		MATERIAL —	CHECKED R. Lee 4 FEB 65		
1902299-011	1902299-011		APPROVAL R. Lee 4 FEB 65	CODE IDENT NO.	SIZE D
NEXT ASSY	USED ON	CONTRACT NAS 9-497	APPROVAL W. Nelson 3-26-65	SCALE NONE	1902346
APPLICATION			NASA APPROVAL		SHEET 1 OF 15
			MIT APPROVAL W. Nelson		

SEE 1077-04

APPLICATION		REVISIONS 17810			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	D	UPGRADED FOR CLASS A RELEASE	20MAR 65	JWD

REV	D	D	D	D	D	D	D																		
SHEET	24	25	26	27	28	29	30	31																	
REV STATUS OF SHEETS	REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	24	23	

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
ACSP PN	
DR: WN [signature] DATE 4 FEB 65	CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL W96
CHECKED [signature] 4 FEB 65	
APPROVAL R Rizzini 5 FEB 65	
APPROVAL [signature] 2-25-65	
NASA APPROVAL [signature] MAR 26 1965	CODE IDENT NO. / SIZE / 1902347 / REV D
MIT APPROVAL [signature]	
CONTRACT NAS-9-497	SCALE NONE / SHEET 1 OF 31

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION----
FIG.1 IS FIG.4 OF ND1002206
FIG.2 IS FIG.7 OF ND1002032
FIG.3 IS FIG.5 OF ND1002206

2 ASSEMBLE PER ND1002032

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK LEAD IDENTIFICATION ON SINGLE LEAD PER ND 1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

~~5 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~

~~6 SPIRALLING OF THE MARKING IS ALLOWED.~~

7 IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS COLOR WHITE.

8 FASTEN MARKER SECURELY WITH ITEM 28. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION MARKING TO READ AWAY FROM CONNECTORS

9 VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER

12 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND 1002019.

13 SERIALIZE PER ND 1002023.

14 ITEMS 10 AND 30 FURNISHED WITH ITEMS 6,7,8, AND 29.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

15 THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER.
R - WHITE WITH LETTER R OR WHITE WITH RED TRACER
Y - WHITE WITH LETTER Y OR WHITE WITH YELLOW TRACER

16 ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.

17 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND 1002019. CENTRALIZE.

18 SEAL ZIPPER TUBING PER ND 1002153.

19 MARK SLEEVING OF MULTI-LEADS WITH THE LEADS NUMBER .12 INCH HIGH, COLUR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

20 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

21 MARK TUBING WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS, COLOR WHITE, HOT IMPRESSION STAMP PER ND 1002019, CENTRALIZED.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902347-001	WIRE ND 1002181, TYPE 1 CLASS 1, WHT NO. 22AWG 226 FEET TOTAL LENGTH
2	1	1902347-002	WIRE ND 1002181, TYPE 1 CLASS 1 WHT NO. 20AWG 9 FEET TOTAL LENGTH
3	1	1902347-003	WIRE ND 1002181, TYPE 2 CLASS 4 WHT JKT NO. 22AWG WHT/BLU, WHT/RED 1581 FT TOTAL LENGTH
4	1	1902347-004	WIRE ND 1002181, TYPE 3 CLASS 4 WHT JKT NO. 22AWG WHT/BLU, WHT/RED, WHT/YEL, 57 FEET TOTAL LENGTH
5	1	1902347-005	WIRE ND 1002181, TYPE 2 CLASS 1 T2 NO. 22AWG WHT WITH LETTER L, WHT WITH LETTER R, 257 FEET TOTAL LENGTH
6	1	MS3126F-24-61SW	(1897048-611) CONNECTORS PLUG, ELEC CRIMP TYPE
7	1	MS3126F-24-61SX	(1897048-612) CONNECTORS PLUG, ELEC CRIMP TYPE
8	1	MS3126F-20-41S	(1897044-410) CONNECTORS PLUG, ELEC CRIMP TYPE
10 9	1	1897187- 1	CONN. RECEPTACLE-ELECTRICAL
10	163	MS3193A-20A	CONTACT-ELEC, SOCKET, CRIMP
10 11	132	1010738- 5	CONTACT, CRIMP TYPE
10 12	49	1000243- 10	FERRULE ELEC. COND
10 13	51	1000242- 11	FERRULE ELEC. COND

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
10	14	2	1000243- 11	FERRULE ELEC. COND
10	15	53	1010490-194	INSULATION SLEEVING
10	16	2	1010490-196	INSULATION SLEEVING
10	17	49	1010490-198	INSULATION SLEEVING
10	18	7	1016006-001	SPLICE REDUCER
10	19	10	1016006-002	SPLICE REDUCER
10	20	2	1016006-003	SPLICE REDUCER
10	21	7	1010490-256	INSULATION SLEEVING
10	22	10	1010490-258	INSULATION SLEEVING
10	23	2	1010490-224	INSULATION SLEEVING
	24	1	1902347-006	WIRE ND 1002181, TYPE 3 CLASS 1 T3 NO. 22AWG WHT WITH LETTER L, WHT WITH LETTER R, WHT WITH LETTER Y, 28 FT 6 IN. TOTAL LENGTH
	25	1	1902347-007	ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC FLEXIBLE .75 IN. DIA. 6 FT 8 IN. TOTAL LENGTH
	26	1	1902347-008	ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC FLEXIBLE .50 IN. DIA 3 FT. 4 IN. TOT. LENGTH
	27	1	1902347-009	ZIPPER TUBING ND 1002155 TYPE 1, PLASTIC FLEXIBLE 2.00 IN. DIA 25 FT. TOT. LENGTH
9	28	AR	1012507-004	TAPE, LACING AND TYING
	29	1	MS3126F-14-15P	CONN ELEC

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 6 OF 31

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	30	15	MS3192A-20A	PIN CONTACT ELEC
10	31	4	1016128-041	BAND IDENTIFICATION
10	32	1	1016128-011	BAND IDENTIFICATION
10	33	1	1000243- 14	FERRULE ELEC COND.
10	34	1	1000242- 12	FERRULE ELEC COND.
	35	1	1902347-010	WIRE,ND1002181, TYPE2, CLASS4, WHT JKT, NO.20AWG, WHT/BLU, WHT/RED, 36FT TOTAL LENGTH
	36	1	1902347-011	TUBING, MIL-I-7444, TYPE III, BLK, FLEX. .312 DIA, 8FT TOTAL LENGTH
	37	1	1016197-007	TUBING, MODIFIED, POLYVINYL CHLORIDE SHRINK FIT, FLEXIBLE, 6 INCHES TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 7 OF 31

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	3			1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A	1A	1	SHLD A1 E5					.37 NO .37 NO				
A	1L		P1-D E1					.22 NO .37 NO			10	
A	1R		P1-C P4-76					.22 NO .10 NO			10 11	
A	2	3			1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A	2A	1	SHLD A2 E5					.37 NO .37 NO				
A	2L		P1-F E1					.22 NO .37 NO			10	
A	2R		P1-E P4-94					.22 NO .10 NO			10 11	
A	3	3			1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A	3A	1	SHLD A3 E5					.37 NO .37 NO				
A	3L		P1-S E1					.22 NO .37 NO			10	
A	3R		P1-R P4-75					.22 NO .10 NO			10 11	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 8 OF 31

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	4	3			1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A	4A	1	SHLD A4 E5					.37 NO .37 NO				
A	4L		P1-W E1					.22 NO .37 NO			10	
A	4R		P1-V P4-111					.22 NO .10 NO			10 11	
A	5	3			2.10 2.10	1.85 1.85				1 2	A 15, 12, 13 A 17	
A	5A	1	SHLD A5 E5					.37 NO .37 NO				
A	5L		P1-PP E1					.22 NO .37 NO			10	
A	5R		P1-NN P4-112					.22 NO .10 NO			10 11	
A	6	1	E1 P4-93					.37 NO .10 NO			11	
A	7	3			2.10 2.10	1.85 1.85				1 2	A 15, 12, 13 A 17	
A	7A	1	SHLD A7 E5					.37 NO .37 NO				
A	7L		P1-D* E2					.22 NO .37 NO			10	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 9 OF 31

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 7R			P1-C*					.22	NO		10	
			P4-95					.22	NO		11	
A 8	3				2.10	1.85				1	A 15, 12, 13	
					2.10	1.85				2	A 17	
A 8A	1		SHLD A8					.37	NO			
			E6					.37	NO			
A 8L			P1-F*					.22	NO		10	
			E2					.37	NO			
A 8R			P1-E*					.22	NO		10	
			P4-96					.10	NO		11	
A 9	3				2.10	1.85				1	A 15, 12, 13	
					2.10	1.85				2	A 17	
A 9A	1		SHLD A9					.37	NO			
			E6					.37	NO			
A 9L			P1-H*					.22	NO		10	
			E2					.37	NO			
A 9R			P1-G*					.22	NO		10	
			P4-113					.10	NO		11	
A 10	1		E2					.37	NO			
			P4-114					.10	NO		11	
A 11	3				2.50	2.25				1	A 15, 12, 13	
					2.50	2.25				2	A 17	
A 11A	1		SHLD A11					.37	NO			
			E6					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 10 OF 31

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 11L			P1-K*					.22	NO		10	
			E3					.37	NO			
A 11R			P1-J*					.22	NO		10	
			P4-73					.10	NO		11	
A 12	3				2.50	2.25				1	A 15, 12, 13	
					2.50	2.25				2	A 17	
A 12A	1		SHLD A12					.37	NO			
			E6					.37	NO			
A 12L			P1-N*					.22	NO		10	
			E3					.37	NO			
A 12R			P1-M*					.22	NO		10	
			P4-40					.10	NO		11	
A 13	3				2.50	2.25				1	A 15, 12, 13	
					2.50	2.25				2	A 17	
A 13A	1		SHLD A13					.37	NO			
			E6					.37	NO			
A 13L			P1-Q*					.22	NO		10	
			E3					.37	NO			
A 13R			P1-P*					.22	NO		10	
			P4-22					.10	NO		11	
A 14	3				2.50	2.25				1	A 15, 12, 13	
					2.50	2.25				2	A 17	
A 14A	1		SHLD A14					.37	NO			
			E6					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 11 OF 31

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 14L			P1-S*					.22	NO		10	
			E3					.37	NO			
A 14R			P1-R*					.22	NO		10	
			P4-37					.10	NO		11	
A 15	3				2.90	2.65				1	A 15, 12, 13	
					2.90	2.65				2	A 17	
A 15A	1		SHLD A15					.37	NO			
			E7					.37	NO			
A 15L			P1-P					.22	NO		10	
			E3					.37	NO			
A 15R			P1-N					.22	NO		10	
			P4-21					.10	NO		11	
A 16	3				2.90	2.65				1	A 15, 12, 13	
					2.90	2.65				2	A 17	
A 16A	1		SHLD A16					.37	NO			
			E7					.37	NO			
A 16L			P1-U					.22	NO		10	
			E3					.37	NO			
A 16R			P1-T					.22	NO		10	
			P4-38					.10	NO		11	
A 17	3				2.90	2.65				1	A 15, 12, 13	
					2.90	2.65				2	A 17	
A 17A	1		SHLD A17					.37	NO			
			E7					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 12 OF 31

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17L			P1-Y					.22	NO		10	
			E3					.37	NO			
A 17R			P1-X					.22	NO		10	
			P4-19					.10	NO		11	
A 18	3				2.90	2.65				1	A 15, 12, 13	
					2.90	2.65				2	A 17	
A 18A	1		SHLD A18					.37	NO			
			E7					.37	NO			
A 18L			P1-B*					.22	NO		10	
			E3					.37	NO			
A 18R			P1-A*					.22	NO		10	
			P4-39					.10	NO		11	
A 19	1		E3					.37	NO			
			E18					.37	NO			
A 20	3				3.30	3.05				1	A 15, 12, 13	
					3.30	3.05				2	A 17	
A 20A	1		SHLD A20					.37	NO			
			E7					.37	NO			
A 20L			P1-V*					.22	NO		10	
			P4-61					.10	NO		11	
A 20R			P1-U*					.22	NO		10	
			P4-77					.10	NO		11	
A 21	3				3.30	3.05				1	A 15, 12, 13	
					3.30	3.05				2	A 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 13 OF 31

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 21A	1		SHLD A21 E7					.37 .37	NO NO			
A 21L			P1-X* P4-27					.22 .10	NO NO		10 11	
A 21R			P1-W* P4-45					.22 .10	NO NO		10 11	
A 22	3				3.30 3.30	3.05 3.05				1 2	A 15, 12, 13 A 17	
A 22A	1		SHLD A22 E8					.37 .37	NO NO			
A 22L			P1-Z* P4-26					.22 .10	NO NO		10 11	
A 22R			P1-Y* P4-4					.22 .10	NO NO		10 11	
A 23	3				3.30 3.30	3.05 3.05				1 2	A 15, 12, 13 A 17	
A 23A	1		SHLD A23 E8					.37 .37	NO NO			
A 23L			P1-BB P4-43					.22 .10	NO NO		10 11	
A 23R			P1-AA P4-60					.22 .10	NO NO		10 11	
A 24	3				3.70 3.70	3.45 3.45				1 2	A 15, 12, 13 A 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902347
SCALE-NONE	REV LTR D	SHEET 14 OF 31

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 24A	1		SHLD A24 E8					.37 .37	NO NO			
A 24L			P1-DD P4-44					.22 .10	NO NO		10 11	
A 24R			P1-CC P4-25					.22 .10	NO NO		10 11	
A 25	3				3.70 3.70	3.45 3.45				1 2	A 15, 12, 13 A 17	
A 25A	1		SHLD A25 E8					.37 .37	NO NO			
A 25L			P1-FF P4-42					.22 .10	NO NO		10 11	
A 25R			P1-EE P4-24					.22 .10	NO NO		10 11	
A 26	3				3.70 3.70	3.45 3.45				1 2	A 15, 12, 13 A 17	
A 26A	1		SHLD A26 E8					.37 .37	NO NO			
A 26L			P1-HH P4-41					.22 .10	NO NO		10 11	
A 26R			P1-GG P4-59					.22 .10	NO NO		10 11	
A 27	3				3.70 3.70	3.45 3.45				1 2	A 15, 12, 13 A 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902347
SCALE-NONE	REV LTR D	SHEET 15 OF 31

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 27A	1		SHLD A27 E8					.37 .37	NO NO			
A 27L			P1-KK P4-3					.22 .10	NO NO		10 11	
A 27R			P1-JJ P4-2					.22 .10	NO NO		10 11	
A 28	3				4.10 4.10	3.85 3.85				1 2	A 15, 12, 13 A 17	
A 28A	1		SHLD A28 E8					.37 .37	NO NO			
A 28L			P1-MM P4-23					.22 .10	NO NO		10 11	
A 28R			P1-LL P4-1					.22 .10	NO NO		10 11	
A 29	5											
A 29L			P1-K E4					.22 .37	NO NO		10	
A 29R			P1-J P4-84					.22 .10	NO NO		10 11	
A 30	5											
A 30L			P1-M E4					.22 .37	NO NO		10	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902347
SCALE-NONE	REV LTR D	SHEET 16 OF 31

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P1-L P4-85					.22 .10	NO NO		10 11	
A 31	2		E5 E9					.37 .37	NO NO			
A 32	2		E6 E9					.37 .37	NO NO			
A 33	2		E7 E9					.37 .37	NO NO			
A 34	2		E8 E9					.37 .37	NO NO			
A 35	2		E9 P1-B					.37 .22	NO NO		10	
A 36	5											
A 36L			P2-G E4					.22 .37	NO NO		10	
A 36R			P2-F P4-86					.22 .10	NO NO		10 11	
A 37	5											
A 37L			P2-J E4					.22 .37	NO NO		10	
A 37R			P2-H P4-69					.22 .10	NO NO		10 11	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902347
SCALE-NONE	REV LTR D	SHEET 17 OF 31

MIL 3084 4-63

CABLE W96 1902347 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 38	5											
A 38L			P2-L E4					.22 .37	NO NO		10	
A 38R			P2-K P4-66					.22 .10	NO NO		10 11	
A 39	3				1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A 39A	1		SHLD A39 E10					.37 .37	NO NO			
A 39L			P2-P P4-88					.22 .10	NO NO		10 11	
A 39R			P2-N P4-70					.22 .10	NO NO		10 11	
A 40	3				1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A 40A	1		SHLD A40 E10					.37 .37	NO NO			
A 40L			P2-S P4-104					.22 .10	NO NO		10 11	
A 40R			P2-R P4-126					.22 .10	NO NO		10 11	
A 41	3				1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 18 OF 31

MIL 2064 4-63

CABLE W96 1902347 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 41A	1		SHLD A41 E10					.37 .37	NO NO			
A 41L			P2-U P4-102					.22 .10	NO NO		10 11	
A 41R			P2-T P4-103					.22 .10	NO NO		10 11	
A 42	3				1.75 1.75	1.50 1.50				1 2	A 15, 12, 13 A 17	
A 42A	1		SHLD A42 E10					.37 .37	NO NO			
A 42L			P2-W P4-124					.22 .10	NO NO		10 11	
A 42R			P2-V P4-125					.22 .10	NO NO		10 11	
A 43	3				2.10 2.10	1.85 1.85				1 2	A 15, 12, 13 A 17	
A 43A	1		SHLD A43 E10					.37 .37	NO NO			
A 43L			P2-Y P4-87					.22 .10	NO NO		10 11	
A 43R			P2-X P4-105					.22 .10	NO NO		10 11	
A 44	3				2.10 2.10	1.85 1.85				1 2	A 15, 12, 13 A 17	

MANNED SPACECRAFT CENTER HOUSTON TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 19 OF 31

MIL 2064 4-63

CABLE W96 1902347 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	1		SHLD A44 E10					.37 .37	NO NO			
A 44L			P2-B• P4-12					.22 .10	NO NO		10 11	
A 44R			P2-A• P4-11					.22 .10	NO NO		10 11	
A 45	3				2.10 2.10	1.85 1.85				1 2	A 15, 12, 13 A 17	
A 45A	1		SHLD A45 E11					.37 .37	NO NO			
A 45L			P2-D• P4-14					.22 .10	NO NO		10 11	
A 45R			P2-C• P4-13					.22 .10	NO NO		10 11	
A 46	4				2.10 2.10	1.85 1.85				1 2	A 15, 14, 13 A 16	
A 46A	1		SHLD A46 E11					.37 .37	NO NO			
A 46L			P2-F• P4-33					.22 .10	NO NO		10 11	
A 46R			P2-E• P4-32					.22 .10	NO NO		10 11	
A 46Y			P2-G• P4-50					.22 .10	NO NO		10 11	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 20 OF 31

MIL 2064 4-63

CABLE W96 1902347 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 47	5											
A 47L			P2-I• P4-83					.22 .10	NO NO		10 11	
A 47R			P2-K• P4-82					.22 .10	NO NO		10 11	
A 48	5											
A 48L			P2-N• P4-65					.22 .10	NO NO		10 11	
A 48R			P2-M• P4-81					.22 .10	NO NO		10 11	
A 49	5											
A 49L			P2-Q• P4-63					.22 .10	NO NO		10 11	
A 49R			P2-P• P4-64					.22 .10	NO NO		10 11	
A 50	24											
A 50L			P2-S• P4-49					.22 .10	NO NO		10 11	
A 50R			P2-R• P4-47					.22 .10	NO NO		10 11	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 21 OF 31

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 50Y			P2-T* P4-48					.22 .10	NO NO		10 11	
A 51	5											
A 51L			P2-BB P4-5					.22 .10	NO NO		10 11	
A 51R			P2-AA P4-6					.22 .10	NO NO		10 11	
A 52	3				2.50 2.50	2.25 2.25				1 2	A 15, 12, 13 A 17	
A 52A	1		SHLD A52 E11					.37 .37	NO NO			
A 52L			P2-DD P4-78					.22 .10	NO NO		10 11	
A 52R			P2-CC P4-79					.22 .10	NO NO		10 11	
A 53	3				2.50 2.50	2.25 2.25				1 2	A 15, 12, 13 A 17	
A 53A	1		SHLD A53 E11					.37 .37	NO NO			
A 53L			P2-V* P4-91					.22 .10	NO NO		10 11	
A 53R			P2-U* P4-92					.22 .10	NO NO		10 11	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 22 OF 31

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 54	3				2.50 2.50	2.25 2.25				1 2	A 15, 12, 13 A 17	
A 54A	1		SHLD A54 E11					.37 .37	NO NO			
A 54L			P2-X* P4-110					.22 .10	NO NO		10 11	
A 54R			P2-W* P4-132					.22 .10	NO NO		10 11	
A 55	3				2.50 2.50	2.25 2.25				1 2	A 15, 12, 13 A 17	
A 55A	1		SHLD A55 E11					.37 .37	NO NO			
A 55L			P2-Z* P4-109					.22 .10	NO NO		10 11	
A 55R			P2-Y* P4-131					.22 .10	NO NO		10 11	
A 56	1		P2-LL P4-106					.22 .10	NO NO		10 11	
A 57	1		P2-MM P4-127					.22 .10	NO NO		10 11	
A 58	1		P2-NN P4-129					.22 .10	NO NO		10 11	
A 59	1		P2-PP P4-107					.22 .10	NO NO		10 11	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 23 OF 31

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60	1		P2-H* P4-128					.22 .10	NO NO		10 11	
A 61	4				2.90 2.90	2.65 2.65				1 2	A 15, 14, 13 A 16	
A 61A	1		SHLD A61 E12					.37 .37	NO NO			
A 61L			P2-D P4-7					.22 .10	NO NO		10 11	
A 61R			P2-C P4-28					.22 .10	NO NO		10 11	
A 61Y			P2-E P4-29					.22 .10	NO NO		10 11	
A 62	3				2.90 2.90	2.65 2.65				1 2	A 15, 12, 13 A 17	
A 62A	1		SHLD A62 E12					.37 .37	NO NO			
A 62L			P2-FF E14					.22 .37	NO NO		10	
A 62R			P2-EE P4-89					.22 .10	NO NO		10 11	
A 63	3				2.90 2.90	2.65 2.65				1 2	A 15, 12, 13 A 17	
A 63A	1		SHLD A63 E12					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 24 OF 31

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 63L			P2-HH E14					.22 .37	NO NO		10	
A 63R			P2-GG P4-90					.22 .10	NO NO		10 11	
A 64	3				2.90 2.90	2.65 2.65				1 2	A 15, 12, 13 A 17	
A 64A	1		SHLD A64 E12					.37 .37	NO NO			
A 64L			P2-KK E14					.22 .37	NO NO		10	
A 64R			P2-JJ P4-130					.22 .10	NO NO		10 11	
A 65	1		E14 P4-108					.37 .10	NO NO		11	
A 66	2		E10 E12					.37 .37	NO NO			
A 67	2		E11 E12					.37 .37	NO NO			
A 68			DELETED									
A 69	2		E12 P2-B					.37 .22	NO NO		10	
A 70	3				2.30 2.30	2.00 2.00				1 2	A 15, 12, 13 A 17	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902347 | SCALE-NONE | REV LTR D | SHEET 25 OF 31

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70A	1		SHLD A70 E15				.37 .37	NO NO			
A 70L			P3-D E18				.22 .37	NO NO		10	
A 70R			P3-C P4-58				.22 .10	NO NO		10 11	
A 71	3				2.30 2.30	2.00 2.00			1 2	A 15, 12, 13 A 17	
A 71A	1		SHLD A71 E15				.37 .37	NO NO			
A 71L			P3-F E18				.22 .37	NO NO		10	
A 71R			P3-E P4-74				.22 .10	NO NO		10 11	
A 72	3				2.30 2.30	2.00 2.00			1 2	A 15, 12, 13 A 17	
A 72A	1		SHLD A72 E15				.37 .37	NO NO			
A 72L			P3-H E18				.22 .37	NO NO		10	
A 72R			P3-G P4-20				.22 .10	NO NO		10 11	
A 73	3				2.30 2.30	2.00 2.00			1 2	A 15, 12, 13 A 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73A	1		SHLD A73 E15				.37 .37	NO NO			
A 73L			P3-K E18				.22 .37	NO NO		10	
A 73R			P3-J P4-57				.22 .10	NO NO		10 11	
A 74	3				2.80 2.80	2.50 2.50			1 2	A 15, 12, 13 A 17	
A 74A	1		SHLD A74 E15				.37 .37	NO NO			
A 74L			P3-M E18				.22 .37	NO NO		10	
A 74R			P3-L P4-71				.22 .10	NO NO		10 11	
A 75	3				2.80 2.80	2.50 2.50			1 2	A 15, 12, 13 A 17	
A 75A	1		SHLD A75 E15				.37 .37	NO NO			
A 75L			P3-P E18				.22 .37	NO NO		10	
A 75R			P3-N P4-72				.22 .10	NO NO		10 11	
A 76	3				2.80 2.80	2.50 2.50			1 2	A 15, 12, 13 A 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 76A	1		SHLD A76 E16				.37 .37	NO NO			
A 76L			P3-S E18				.22 .37	NO NO		10	
A 76R			P3-R P4-54				.22 .10	NO NO		10 11	
A 77	3				2.80 2.80	2.50 2.50			1 2	A 15, 12, 13 A 17	
A 77A	1		SHLD A77 E16				.37 .37	NO NO			
A 77L			P3-U E18				.22 .37	NO NO		10	
A 77R			P3-T P4-55				.22 .10	NO NO		10 11	
A 78	3				3.30 3.30	3.10 3.10			1 2	A 15, 12, 13 A 17	
A 78A	1		SHLD A78 E16				.37 .37	NO NO			
A 78L			P3-M* E4				.22 .37	NO NO		10	
A 78R			P3-K* P4-67				.22 .10	NO NO		10 11	
A 79	1		P3-N* P4-62				.22 .10	NO NO		10 11	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 80	1		P3-P* P4-46				.22 .10	NO NO		10 11	
A 81	3				3.30 3.30	3.10 3.10			1 2	A 15, 12, 13 A 17	
A 81A	1		SHLD A81 E16				.37 .37	NO NO			
A 81L			P3-X P4-31				.22 .10	NO NO		10 11	
A 81R			P3-W P4-9				.22 .10	NO NO		10 11	
A 82	2		E15 E17				.37 .37	NO NO			
A 83	2		E16 E17				.37 .37	NO NO			
A 84	2		E17 P3-B				.37 .22	NO NO		10	
A 85	1		E3 E19				.37 .37	NO NO			
A 86	1		E18 E19				.37 .37	NO NO			
A 87	1		E19 P4-56				.37 .10	NO NO		11	
A 88	1		E4 P4-68				.37 .10	NO NO		11	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89	35				3.30 1.75	3.10 1.50				1 3	A 15, 33, 34 A 15, 33, 34	
A 89A	1		SHLD A89 E16					.37 .37	+O NO			
A 89B	1		P5-H SHLD AR9					.22 .37	NO NO		30	
A 89L			P3-B* P5-G					.22 .22	NO NO		10 30	
A 89R			P3-A* P5-F					.22 .22	NO NO		10 30	
A 90	1		P4-10 P5-A					.10 .22	NO NO		11 30	

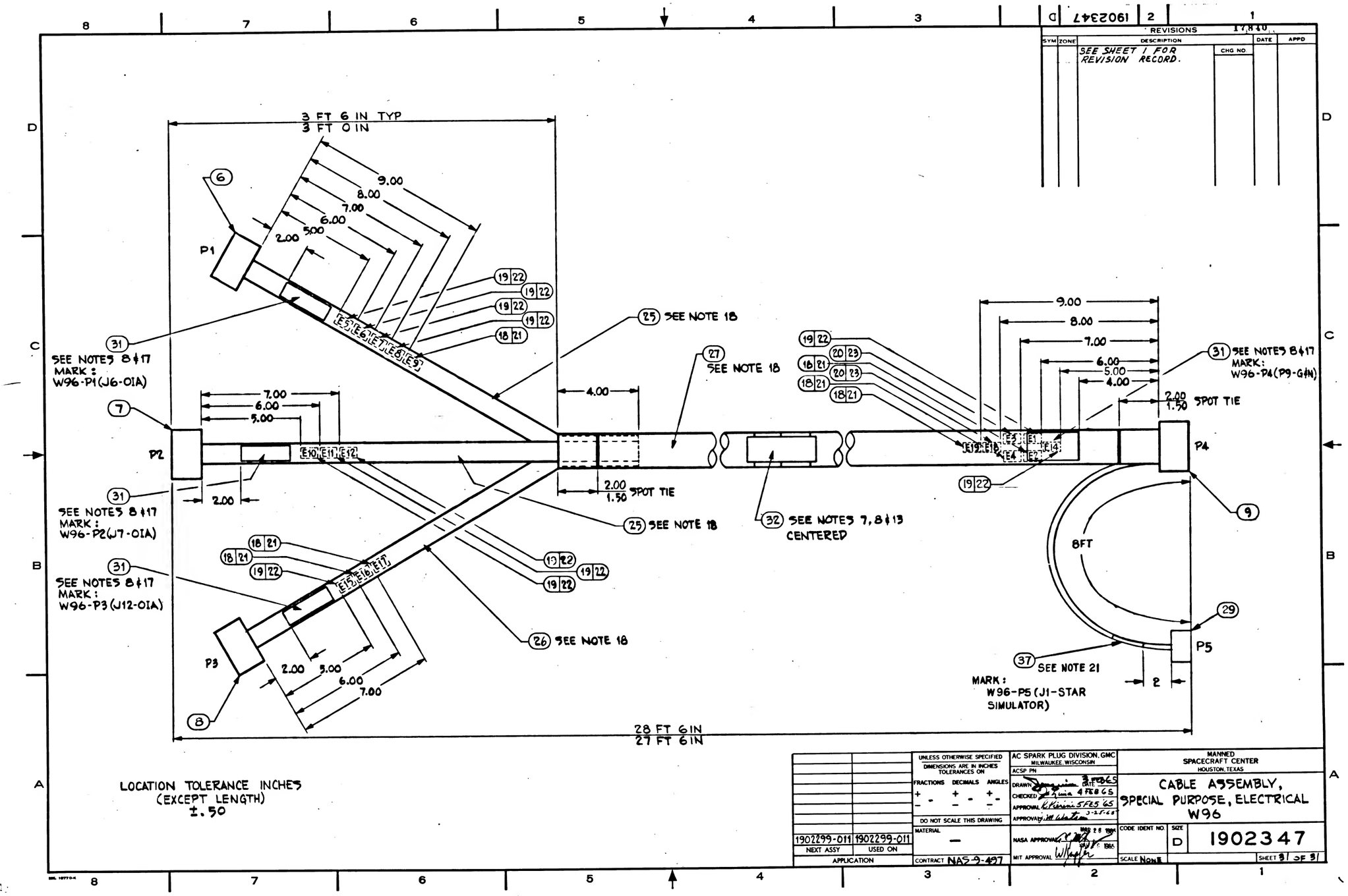
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902347
SCALE - NONE	REV LTR K D	SHEET 30 OF 31

MIL 8084 4-63

D 1902347 2 1

REVISIONS				
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD.			

17,440



1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + - + - + - DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 3 FEB 65

CHECKED 4 FEB 65

APPROVAL K. Kerwin 5 FEB 65

APPROVAL 2-27-68

NASA APPROVAL MAR 28 1968

MIT APPROVAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL W96

CODE IDENT NO. | SIZE D | 1902347

SCALE NONE | SHEET 31 OF 31

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-0M	1902299-0M	C	UPGRADED TO CLASS A PER TDRR 17840	22 MAR 65	

Charleston 11 FEB 65

REV											
SHEET											
REV STATUS	REV	C	C	C	C	C	C	C	C	C	C
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Bender 4-FEB-65 DATE
CHECKED Pierini 11 FEB 65
APPROVAL K. Pierini 11 FEB '65
APPROVAL J. M. Walsh 2-26-65

NASA APPROVAL
MIT APPROVAL
CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ADAPTER CABLE W93
REMOTE OPTICS CONTROLLER

CODE IDENT NO.	SIZE		REV
	A	1902349	C
SCALE —		SHEET 1 OF 10	

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION---- FIG.1 IS FIG.4 OF ND1002206 FIG.2 IS FIG.7 OF ND1002032 FIG.3 IS FIG.5 OF ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
9	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
12	SEAL ZIPPER TUBING PER ND1002153.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
13	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER W - WHITE
14	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE
15	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.
16	ASSEMBLE CONTACTS IN ALL GROMMET HOLES
17	SECURE TO CABLE USING ITEM 18. MARKING TO READ AWAY FROM CONNECTOR.
18	SERIALIZE PER ND1002023.
19	POT PER ND1002009 USING ITEMS 9 AND 8.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902349-001	WIRE, PER ND1002181, TYPE 1, CLASS 1, 22AWG WHT., 483 FT. TOTAL LENGTH
	2	1	1902349-002	WIRE PER ND1002181, TYPE 2, CLASS 4, WHT JKT, 22AWG WHT/BLU, WHT/RED, 120 FT. TOTAL LENGTH
	3	1	1902349-003	WIRE, PER ND1002181, TYPE 1, CLASS 4, WHT JKT, 22AWG WHT 30 FT. TOTAL LENGTH
	4	1	1902349-004	ZIPPER TUBING PER ND1002155 TYPE 1, PLASTIC FLEXIBLE .50 DIA 30 FT. TOTAL LENGTH
10	5	1	1897174- 1	CONNECTOR PLUG ELECTRICAL
10	6	216	1010738- 5	CONTACT ELECTRICAL-PIN
10	7	1	1016006-002	SPLICE REDUCER
10	8	AR	1006834	COMPOUND, SILICONE RUBBER
10	9	AR	1016204	PRIMER FOR SILICONE RUBBER ADHESIVE AND POTTING COMPOUND.
10	10	1	1000243- 4	FERRULE, ELECT. COND.
10	11	1	1000242- 4	FERRULE, ELECT. COND.
10	12	4	1010490-194	INSULATION, SLEEVING ELECT.
10	13	4	1000243-010	FERRULE, ELECT. COND.
10	14	4	1000242-011	FERRULE, ELECT. COND.
10	15	6	1010490-198	INSULATION, SLEEVING ELECT.
10	16	2	1016128-041	BAND, IDENTIFICATION

SEE NOTE — LIST OF MATERIALS

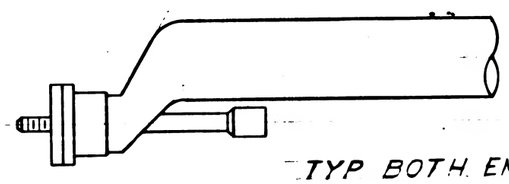
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
10	17	1	1016128-011	BAND, IDENTIFICATION
11	18	AR	1012507-004	TAPE LACING TYING
10	19	1	1010490-226	INSULATION SLEEVING ELECTRICAL
10	20	1	189717A- 4	CONN. PLUG ELEC.

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	P1-96					.10	NO		6	
			P2-40					.10	NO		6	
A	2	1	P1-27					.10	NO		6	
			P2-11					.10	NO		6	
A	3	1	P1-9					.10	NO		6	
			P2-10					.10	NO		6	
A	4	1	P1-58					.10	NO		6	
			P2-54					.10	NO		6	
A	5	1	P1-59					.10	NO		6	
			P2-53					.10	NO		6	
A	6	1	P1-82					.10	NO		6	
			P2-52					.10	NO		6	
A	7	1	P1-72					.10	NO		6	
			P2-51					.10	NO		6	
A	8	1	P1-71					.10	NO		6	
			P2-29					.10	NO		6	
A	9	1	P1-1					.10	NO		6	
			P2-41					.10	NO		6	
A	10	1	P1-2					.10	NO		6	
			P2-50					.10	NO		6	
A	11	1	P1-91					.10	NO		6	
			P2-91					.10	NO		6	
A	12	1	P1-26					.10	NO		6	
			P2-104					.10	NO		6	

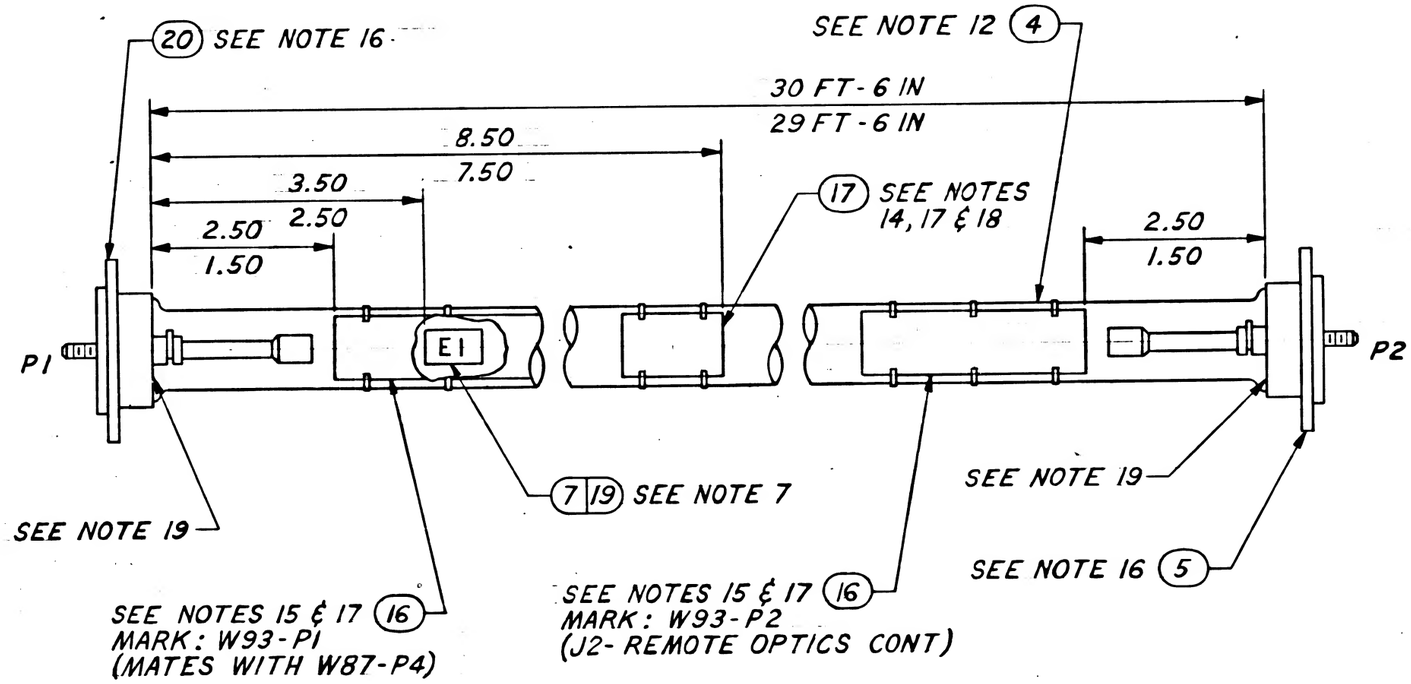
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	P1-32					.10	NO		6	
			P2-103					.10	NO		6	
A	14	1	P1-44					.10	NO		6	
			P2-102					.10	NO		6	
A	15	3			2.30	2.00				1	A 15, 10, 11	
					2.30	2.00				2	A 15	
A	15A	1	SHLD A15					.37	NO			
			E1					.37	NO			
A	15W		P1-45					.10	NO		6	
			P2-55					.10	NO		6	
A	16	2			2.30	2.00				1	A 12, 13, 14	
					2.30	2.00				2	A 15	
A	16A	1	SHLD A16					.37	NO			
			E1					.37	NO			
A	16L		P1-10					.10	NO		6	
			P2-27					.10	NO		6	
A	16R		P1-24					.10	NO		6	
			P2-13					.10	NO		6	
A	17	2			2.30	2.00				1	A 12, 13, 14	
					2.30	2.00				2	A 15	
A	17A	1	SHLD A17					.37	NO			
			E1					.37	NO			
A	17L		P1-8					.10	NO		6	
			P2-8					.10	NO		6	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	17R		P1-22					.10	NO		6	
			P2-22					.10	NO		6	
A	18	2			2.30	2.00				1	A 12, 13, 14	
					2.30	2.00				2	A 15	
A	18A	1	SHLD A18					.37	NO			
			E1					.37	NO			
A	18L		P1-34					.10	NO		6	
			P2-94					.10	NO		6	
A	18R		P1-35					.10	NO		6	
			P2-95					.10	NO		6	
A	19	2			2.80	2.50				1	A 12, 13, 14	
					2.80	2.50				2	A 15	
A	19A	1	SHLD A19					.37	NO			
			E1					.37	NO			
A	19L		P1-80					.10	NO		6	
			P2-46					.10	NO		6	
A	19R		P1-69					.10	NO		6	
			P2-56					.10	NO		6	
A	20	1	P1-19					.10	NO		6	
			P2-64					.10	NO		6	
A	21	1	P1-83					.10	NO		6	
			E1					.37	NO			
A	22	1	E1					.37	NO			
			P2-83					.10	NO		6	

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



TYP BOTH ENDS



1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — —
DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Bender 4-FEB-65 DATE
CHECKED A Lima 11 FEB 65
APPROVAL R. Pirini 11 FEB '65
APPROVAL J. W. Watson 3-26-65
NASA APPROVAL MAR 26 1965
MIT APPROVAL MAR 26 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ADAPTER CABLE W93 REMOTE OPTICS CONTROLLER

CODE IDENT NO.	SIZE	
	C	1902349
SCALE FULL		SHEET 10 OF 10

MIL 1077C-P

1902349

APPLICATION		REVISIONS 17811			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-01	1902299-01 N	C	UPGRADED TO CLASS A PER TDRR17811	22 MAR 65	
		D	REVISED PER TDRR20509	3 JUL 65	JJJ MEM

Charleston 11 Feb 65

REV											
SHEET											
REV STATUS	REV	D	C	C	C	D	C	C	C	D	
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Bender 4-FEB-65 DATE

CHECKED Erkwein 11 FEB 65

APPROVAL R Pierini 11 Feb 65

APPROVAL J. M Walsh 2-25-65

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ADAPTER CABLE W93
REMOTE OPTICS CONTROLLER

CODE IDENT NO.	SIZE		REV
99974	A	1902349	D

SCALE —

SHEET 1 OF 10

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION----
FIG.1 IS FIG.4 OF ND1002206
FIG.2 IS FIG.7 OF ND1002032
FIG.3 IS FIG.5 OF ND1002206

2 ASSEMBLE PER ND1002032.

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

~~5 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~

~~6 SPIRALLING OF THE MARKING IS ALLOWED.~~

7 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

8 MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

9 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

11 VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

12 SEAL ZIPPER TUBING PER ND1002153.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902349
SCALE-NONE	REV LTR C	SHEET 2 OF 10

MIL 2084 4-63

NOTE NUMBER | GENERAL NOTES DESCRIPTION

13 THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER
W - WHITE

14 IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE

15 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019. CENTRALIZE.

16 ASSEMBLE CONTACTS IN ALL GROMMET HOLES

17 SECURE TO CABLE USING ITEM 18. MARKING TO READ AWAY FROM CONNECTOR.

18 SERIALIZE PER ND1002023.

19 POT PER ND1002009 USING ITEMS 9 AND 8.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902349
SCALE-NONE	REV LTR C	SHEET 3 OF 10

MIL 2084 4-63

NOTE NUMBER | GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902349
SCALE-NONE	REV LTR C	SHEET 4 OF 10

MIL 2084 4-63

SEE NOTE | LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902349-C01	WIRE, PER ND1002181, TYPE 1, CLASS 1, 22AWG WHT., 483 FT. TOTAL LENGTH
	2	1	1902349-002	WIRE PER ND1002181, TYPE 2, CLASS 4, WHT JKT, 22AWG WHT/BLU, WHT/RED, 120 FT. TOTAL LENGTH
	3	1	1902349-003	WIRE, PER ND1002181, TYPE 1, CLASS 4, WHT JKT, 22AWG WHT 30 FT. TOTAL LENGTH
	4	1	1902349-004	ZIPPER TUBING PER ND1002155 TYPE 1, PLASTIC FLEXIBLE .50 DIA 30 FT. TOTAL LENGTH
10	5	1	1897174- 1	CONNECTOR PLUG ELECTRICAL
10	6	216	1010738- 5	CONTACT ELECTRICAL-PIN
10	7	1	1016006-002	SPLICE REDUCER
10	8	AR	1006834	COMPOUND, SILICONE RUBBER
10	9	AR	1016204	PRIMER FOR SILICONE RUBBER ADHESIVE AND POTTING COMPOUND.
10	10	1	1000243- 4	FERRULE, ELECT. COND.
10	11	1	1000242- 4	FERRULE, ELECT. COND.
10	12	4	1010490-194	INSULATION, SLEEVING ELECT.
10	13	4	1000243-010	FERRULE, ELECT. COND.
10	14	4	1000242-011	FERRULE, ELECT. COND.
10	15	6	1010490-198	INSULATION, SLEEVING ELECT.
10	16	2	1016128-041	BAND, IDENTIFICATION

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902349
SCALE-NONE	REV LTR C	SHEET 5 OF 10

MIL 2084 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
10	17	~~1~~ 2	1016128-011	BAND, IDENTIFICATION
11	18	AR	1012507-004	TAPE LACING TYING
10	19	1	1010490-226	INSULATION SLEEVING ELECTRICAL
10	20	1	189717~~4~~- 4	CONN. PLUG ELEC.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902349
SCALE - NONE | REV LTR ~~C~~ D | SHEET 6 OF 10

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-96					.10	NO		6	
			P2-40					.10	NO		6	
A 2	1		P1-27					.10	NO		6	
			P2-11					.10	NO		6	
A 3	1		P1-9					.10	NO		6	
			P2-10					.10	NO		6	
A 4	1		P1-58					.10	NO		6	
			P2-54					.10	NO		6	
A 5	1		P1-59					.10	NO		6	
			P2-53					.10	NO		6	
A 6	1		P1-82					.10	NO		6	
			P2-52					.10	NO		6	
A 7	1		P1-72					.10	NO		6	
			P2-51					.10	NO		6	
A 8	1		P1-71					.10	NO		6	
			P2-29					.10	NO		6	
A 9	1		P1-1					.10	NO		6	
			P2-41					.10	NO		6	
A 10	1		P1-2					.10	NO		6	
			P2-50					.10	NO		6	
A 11	1		P1-91					.10	NO		6	
			P2-91					.10	NO		6	
A 12	1		P1-26					.10	NO		6	
			P2-104					.10	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902349
SCALE - NONE | REV LTR C | SHEET 7 OF 10

MIL 3084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-32					.10	NO		6	
			P2-103					.10	NO		6	
A 14	1		P1-44					.10	NO		6	
			P2-102					.10	NO		6	
A 15	3				2.30	2.00				1	A 15, 10, 11	
					2.30	2.00				2	A 15	
A 15A	1		SHLD A15					.37	NO			
			E1					.37	NO			
A 15W			P1-45					.10	NO		6	
			P2-55					.10	NO		6	
A 16	2				2.30	2.00				1	A 12, 13, 14	
					2.30	2.00				2	A 15	
A 16A	1		SHLD A16					.37	NO			
			E1					.37	NO			
A 16L			P1-10					.10	NO		6	
			P2-27					.10	NO		6	
A 16R			P1-24					.10	NO		6	
			P2-13					.10	NO		6	
A 17	2				2.30	2.00				1	A 12, 13, 14	
					2.30	2.00				2	A 15	
A 17A	1		SHLD A17					.37	NO			
			E1					.37	NO			
A 17L			P1-8					.10	NO		6	
			P2-8					.10	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902349
SCALE - NONE | REV LTR C | SHEET 8 OF 10

MIL 3084 4-63

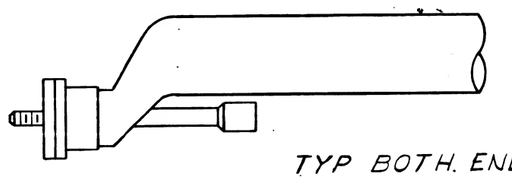
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17R			P1-22					.10	NO		6	
			P2-22					.10	NO		6	
A 18	2				2.30	2.00				1	A 12, 13, 14	
					2.30	2.00				2	A 15	
A 18A	1		SHLD A18					.37	NO			
			E1					.37	NO			
A 18L			P1-34					.10	NO		6	
			P2-94					.10	NO		6	
A 18R			P1-35					.10	NO		6	
			P2-95					.10	NO		6	
A 19	2				2.80	2.50				1	A 12, 13, 14	
					2.80	2.50				2	A 15	
A 19A	1		SHLD A19					.37	NO			
			E1					.37	NO			
A 19L			P1-80					.10	NO		6	
			P2-46					.10	NO		6	
A 19R			P1-69					.10	NO		6	
			P2-56					.10	NO		6	
A 20	1		P1-19					.10	NO		6	
			P2-64					.10	NO		6	
A 21	1		P1-83					.10	NO		6	
			E1					.37	NO			
A 22	1		E1					.37	NO			
			P2-83					.10	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902349
SCALE - NONE | REV LTR C | SHEET 9 OF 10

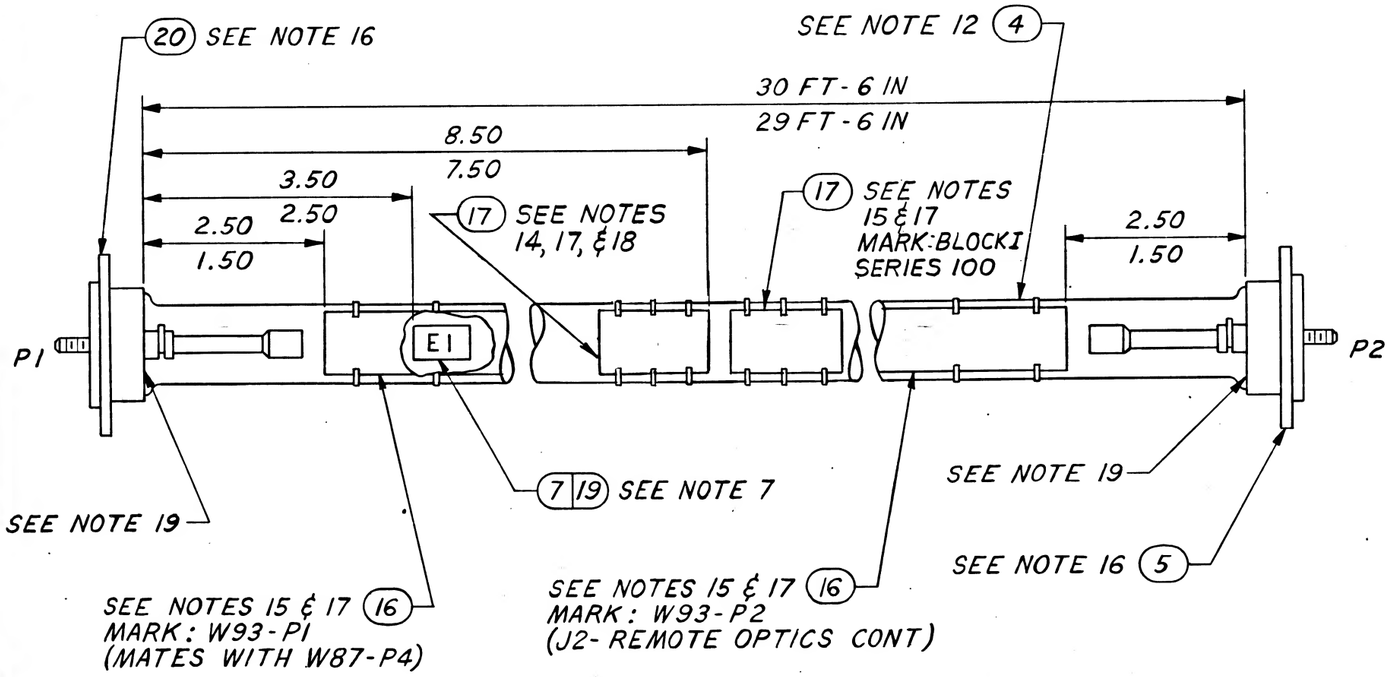
MIL 3084 4-63

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD.
(M)		SEE SHEET 1 FOR REVISION RECORD — CHG NO.		

1:840



TYP BOTH. ENDS



1902299-011	1902299-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Bender 4-FEB-65 DATE
CHECKED Yajima 11FEB65
APPROVAL R. Pirini 11 FEB '65
APPROVAL J. M. Watson 3-26-65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ADAPTER CABLE W93 REMOTE OPTICS CONTROLLER

CODE IDENT NO.	SIZE	
99974	C	1902349
SCALE FULL		SHEET 10 OF 10

MIL 1077C-P

1902349

APPLICATION		REVISIONS 17837			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902406-011	1902133-011	B	UPGRADED TO CLASS 'A' PER TDRR17837	20-MAR-65	A.J.M.

Charleston 1-MAR-65

REV.														
SHEET														
REV STATUS	REV.	B	B	B	B	B	B	B	B	B	B	B	B	B
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 17 FEB 65 DATE
CHECKED 1 MAR 65
APPROVAL
APPROVAL

WIRING HARNESS A

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS 9-497

CODE IDENT NO.	SIZE		REV
		1902359	B

SCALE —

SHEET 1 OF 13

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND 1002206
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND 1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	LACE HARNESS USING ITEM 9.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).
9	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
10	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12
11	LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.
12	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
13	GRID MODULE IS 1 INCH BASIC.
14	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
16	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR	TOLERANCE			
	STRIP		CUT	
STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	WIRE	JACKET	WIRE	SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902359-001	WIRE, ND 1002181 TYPE 1, CLASS 1, 16AWG WHT.
	2	1	1902359-002	WIRE, ND 1002181 TYPE 1, CLASS 1, 20AWG WHT.
	3	1	1902359-003	WIRE, ND 1002181 TYPE 1, CLASS 1, 22AWG WHT.
	4	99	MS25036-2	LUG, INSULATED TERMINAL
16	5	44	1015902-003	LUG, INSULATED TERMINAL
16	6	6	1015864-135	SLEEVING, INSULATION, CLEAR
16	7	9	1015864-139	SLEEVING, INSULATION, CLEAR
16	8	1	1016128-021	BAND, IDENTIFICATION
	9	AR	MIL-T-713	LACING TAPE, TYPE P, CLASS 2 BLACK (ES2732 NO.18)
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	J1-B S1-10	160 23				.25 .20	YES NO		4	
A	2	1	J1-C S1-7	160 24				.25 .20	YES NO		4	
A	3	1	J1-D S1-4	160 25				.25 .20	YES NO		4	
A	4	1	J1-E TB4-5	160 36				.25 .20	YES NO		4	
A	5	1	S1-11 TB3-3	26 8				.20 .20	NO NO		4 4	
A	6	1	S1-8 TB3-7	27 5				.20 .20	NO NO		4 4	
A	7	1	S1-5 TB3-8	28 2				.20 .20	NO NO		4 4	
A	8	1	CB1-4 TB3-8	59 1				.20 .20	NO NO		5 4	
A	10	1	TB3-3 K5-L1	10 123				.20 .20	NO NO		4 5	
A	11	1	TB3-7 K5-L2	4 124				.20 .20	NO NO		4 5	
A	12	1	TB3-8 K5-L3	3 125				.20 .20	NO NO		4 5	
A	13	1	K5-T1 S34-2	122 96				.20 .20	NO NO		5 4	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 14	2		S34-2	97				.20	NO		4	
			S35-2	109				.20	NO		4	
A 15	2		S35-2	110				.20	NO		4	
			S36-2	82				.20	NO		4	
A 16	2		S36-2	83				.20	NO		4	
			S37-2	119				.20	NO		4	
A 17	1		K5-T2	121				.20	NO		5	
			S34-5	93				.20	NO		4	
A 18	2		S34-5	94				.20	NO		4	
			S35-5	105				.20	NO		4	
A 19	2		S36-5	79				.20	NO		4	
			S37-5	117				.20	NO		4	
A 20	1		K5-T3	120				.20	NO		5	
			S34-8	91				.20	NO		4	
A 21	2		S34-8	90				.20	NO		4	
			S35-8	102				.20	NO		4	
A 22	2		S35-8	103				.20	NO		4	
			S36-8	76				.20	NO		4	
A 23	2		S36-8	78				.20	NO		4	
			S37-8	114				.20	NO		4	
A 24	2		TB3-1	13				.20	NO		4	
			S1-1	29				.20	NO		4	
A 25	3		DS1-G	21				.30	YES		7	
			TB3-6	6				.20	NO		4	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE-NONE | REV LTR B | SHEET 6 OF 13

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	2		S37-3	118				.20	NO		4	
			K4-1	42				.20	NO		5	
A 27	2		S37-6	116				.20	NO		4	
			K4-2	43				.20	NO		5	
A 28	2		S37-9	115				.20	NO		4	
			K4-3	38				.20	NO		5	
A 29	2		S34-3	95				.20	NO		4	
			K1-1	56				.20	NO		5	
A 30	2		S34-6	92				.20	NO		4	
			K1-2	55				.20	NO		5	
A 31	2		S34-9	89				.20	NO		4	
			K1-3	53				.20	NO		5	
A 32	2		S35-3	108				.20	NO		4	
			K2-1	67				.20	NO		5	
A 33	2		S35-6	107				.20	NO		4	
			K2-2	65				.20	NO		5	
A 34	2		S35-9	104				.20	NO		4	
			K2-3	62				.20	NO		5	
A 35	2		S36-3	84				.20	NO		4	
			K3-1	51				.20	NO		5	
A 36	2		S36-6	81				.20	NO		4	
			K3-2	50				.20	NO		5	
A 37	2		S36-9	77				.20	NO		4	
			K3-3	47				.20	NO		5	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE-NONE | REV LTR B | SHEET 7 OF 13

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 38	2		XF1-2	134				.30	YES		6	
			K1-3	54				.20	NO		5	
A 39	2		XF2-2	133				.30	YES		6	
			K2-3	63				.20	NO		5	
A 40	2		XF3-2	132				.30	YES		6	
			K3-3	48				.20	NO		5	
A 41	2		XF4-2	131				.30	YES		6	
			K4-3	39				.20	NO		5	
A 42	2		S34-11	86				.20	NO		4	
			S35-11	99				.20	NO		4	
A 43	2		S35-11	98				.20	NO		4	
			S36-11	73				.20	NO		4	
A 44	2		S36-11	72				.20	NO		4	
			S37-11	111				.20	NO		4	
A 45	2		DS1-A	22				.30	YES		7	
			S1-2	30				.20	NO		4	
A 46	2		TB3-6	7				.20	NO		4	
			S34-11	85				.20	NO		4	
A 47	2		K1-4	66				.20	NO		5	
			TB7-1	154				.20	NO		4	
A 48	2		K1-5	64				.20	NO		5	
			TB7-2	153				.20	NO		4	
A 49	2		K1-6	61				.20	NO		5	
			TB7-3	152				.20	NO		4	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE-NONE | REV LTR B | SHEET 8 OF 13

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 50	2		K2-4	71				.20	NO		5	
			TB7-5	151				.20	NO		4	
A 51	2		K2-5	70				.20	NO		5	
			TB7-6	150				.20	NO		4	
A 52	2		K2-6	69				.20	NO		5	
			TB7-7	149				.20	NO		4	
A 53	1		CB1-2	60				.20	NO		5	
			TB7-8	148				.20	NO		4	
A 54	2		K3-4	41				.20	NO		5	
			TB4-1	156				.20	NO		4	
A 55	2		K3-5	44				.20	NO		5	
			TB4-2	157				.20	NO		4	
A 56	2		K3-6	46				.20	NO		5	
			TB4-3	158				.20	NO		4	
A 57	3		S16-2S-OFF	17					NO		4	
			TB7-10	147				.20	NO		4	
A 58	3		S16-2S-26	18					NO		4	
			K7-4	136				.25	YES			
A 59	3		S17-NC	16					NO		4	
			S16-1S-16	19					NO		4	
A 60	2		S16-1S-OFF	20					NO		4	
			K7-6	136				.25	YES			
A 61	2		K1-7	52				.20	NO		5	
			K2-8	68				.20	NO		5	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE-NONE | REV LTR B | SHEET 9 OF 13

MIL 2084 4-63

WIRE HARNESS A — 1902359 — B

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	62	2		K2-7	58				.20	NO		5	
				K3-8	40				.20	NO		5	
A	63	2		K3-7	49				.20	NO		5	
				K4-8	37				.20	NO		5	
A	64	3		K4-7	45				.20	NO		5	
				K5-X1	126				.20	NO		5	
A	65	2		S1-5	31				.20	NO		5	
				XF5-2	130				.25	YES		6	
A	66	1		TB8-2	141				.20	NO		4	
				TB4-4	155				.20	NO		4	
A	67	2		CR21-2	128A				.25	YES			
				S37-12	112				.20	NO		4	
A	68	3		K7-5	136				.25	YES			
				J2-M	159				.20	NO			
A	69	2		XF5-1	129				.25	YES		6	
				TB8-1	142				.20	NO		4	
A	70	2		TB3-4	9				.20	NO		4	
				TB8-7	137				.20	NO		4	
A	71	3		K7-4	136				.25	YES			
				J2-C	159				.22	NO			
A	72	3		K1-8	57				.20	NO		5	
				TB8-5	139				.20	NO		4	
A	73	3		K5-X2	127				.20	NO		5	
				TB8-7	138				.20	NO		4	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE - NONE | REV LTR B | SHEET 10 OF 13

MIL 2084 4-83

WIRE HARNESS A — 1902359 — B

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	74	3		K7-7	136				.25	YES			
				CR16-R	135				.20	YES			
A	75	3		TB4-13	35				.20	NO		4	
				S17-NC	15					NO		4	
A	76	2		TB8-5	140				.20	NO		4	
				TB3-2	11				.20	NO		4	
A	77	3		TB8-5	143				.20	NO		4	
				K7-1	136				.25	YES			
A	78	3		TB7-10	145				.20	NO		4	
				J2-N	159				.22	NO			
A	79	3		TB7-10	146				.20	NO		4	
				K7-2	136				.25	YES			
A	80	3		K7-2	136				.25	YES			
				K9-2	136				.25	YES			
A	81	3		K9-4	136				.25	YES			
				K7-5	136				.25	YES			
A	82	3		K9-7	136				.25	YES			
				TB8-7	144				.20	NO		4	
A	83	3		K9-3	136				.25	YES			
				K7-3	136				.25	YES			
A	84	3		DS2-G	32				.25	YES		7	
				DS3-G	14				.25	YES		7	
A	85	3		DS3-G	14				.25	YES		7	
				TB3-2	12				.20	NO		4	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE - NONE | REV LTR B | SHEET 11 OF 13

MIL 2084 4-83

WIRE HARNESS A — 1902359 — B

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	86	3		K7-3	136				.25	YES			
				K7-1	136				.25	YES			
A	87	3		DS2-A	33				.25	YES		7	
				S34-12	88				.20	NO		4	
A	88	3		DS3-C	14				.25	YES		7	
				S37-12	113				.20	YES		4	
A	89	2		CR24-2	128				.25	YES			
				S34-12	87				.20	YES		4	
A	90	2		CR22-2	128A				.25	YES			
				S36-12	75				.20	YES		4	
A	91	3		DS2-C	34				.25	YES		7	
				S35-12	100				.20	YES		4	
A	92	2		CR23-2	128				.25	YES			
				S35-12	101				.20	YES		4	
A	93	3		DS3-A	14				.25	YES		7	
				S36-12	74				.20	YES		4	
A	94	2		S35-5	106				.20	NO		4	
				S36-5	80				.20	NO		4	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902359 | SCALE - NONE | REV LTR B | SHEET 12 OF 13

MIL 2084 4-83

REVISIONS					17857
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

(8) SEE NOTES 8 & 9

137 TO 142

145 TO 154

1902466-011		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
NEXT ASSY	USED ON	FRACTIONS DECIMALS ANGLES ± ± ±	ACSP PM		
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN [illegible] DATE 17 FEB 65	WIRING HARNESS A	
		MATERIAL —	CHECKED [illegible] DATE 2 FEB 67		
		CONTRACT NAS9-499	APPROVAL [illegible]		
			NASA APPROVAL [illegible]	CODE IDENT NO	SIZE 1902359
			MIT APPROVAL [illegible]	SCALE 1/1	SHEET 13 OF 13

1902359 E

APPLICATION		REVISIONS 17810			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	E	UPGRADED TO CLASS 'A' RELEASE PER TDRR 17840	24 MAR 65	CWT

Charleston
15FEB.65

REV	E	E	E	E	E	E																			
SHEET	22	23	24	25	26	27																			
REV STATUS OF SHEETS	REV	E			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	SHEET	1			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN S. Agne DATE 5 FEB 65
CHECKED D. Lima 15 FEB 65
APPROVAL R. Rivera 15 FEB 65
APPROVAL J. M. Watson 2-25-65

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL W90

CODE IDENT NO.	SIZE		REV
	A	1902365	E

SCALE NONE SHEET 1 OF 27

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION---- FIG.1 IS FIG.4 OF ND1002206 FIG.2 IS FIG.7 OF ND1002032 FIG.3 IS FIG.5 OF ND1002206
2	ASSEMBLY PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1-2 INCHES.~~
6	~~SPIRALING OF THE MARKING IS ALLOWED.~~
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
9	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
10	LACE HARNESS USING ITEM 30.
11	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).
12	FASTEN MARKER SECURELY WITH ITEM 30. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
13	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	BREAKOUTS OF INDIVIDUAL OR GROUPS OR LEADS ARE MINIMUM CONFIGURATION.
16	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
17	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
18	GRID MODULE IS 1 INCH BASIC.
19	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR BLACK, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.
20	SERIALIZE PER ND1002023.
21	MARK IDENTIFICATION BAND AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.
22	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH BLUE TRACER, WHITE WITH LETTER L R - WHITE WITH RED TRACER, WHITE WITH LETTER R W - WHITE Y - WHITE WITH YELLOW TRACER

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ----

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902365-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 22AWG 100 FEET TOTAL LENGTH
	2	1	1902365-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 20AWG 6 FEET TOTAL LENGTH
	3	1	1902365-003	WIRE ND1002181 TYPE 2, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED ~~200~~ 754 FT. TOTAL LENGTH.
	4	1	1902365-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED, WHT/YEL 23 FT. TOT. LG
	5	1	1902365-005	WIRE ND1002181 TYPE 2, CLASS 1, T2 NO 22AWG WHT. WITH LETTER L, WHT. WITH LETTER R, 4 FEET TOTAL LENGTH
	~~6~~	~~1~~	~~1902365-006~~	~~WIRE COAXIAL MIL-C-17/93A RG 188A/U 30 FEET TOTAL LENGTH.~~
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG ELEC CRIMP TYPE
	8	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG ELEC CRIMP TYPE
16	9	1	1010771-207	CONN. SOCKET ELEC CRIMP TYPE
16	10	1	1010771-201	CONN. SOCKET ELEC CRIMP TYPE
16	11	1	1010809-001	CONN. PLUG ELEC
16	12	1	1897189- 1	CONN. RECEPTACLE, ELEC.
16	13	164	1010770- 2	SOCKET CONTACT CRIMP
16	14	38	1010738- 6	SOCKET CONTACT CRIMP
	15	122	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
16	16	~~4~~ 1	1000243- 4	FERRULE ELEC COND
16	17	~~4~~ 1	1000242- 4	FERRULE ELEC COND
16	18	~~31~~ 36	1000243- 10	FERRULE ELEC COND
16	19	~~34~~ 39	1000242- 11	FERRULE ELEC COND
16	20	3	1000243- 11	FERRULE ELEC COND
16	21	~~34~~ 39	1010490-194	INSULATION SLEEVING
16	22	4	1010490-196	INSULATION SLEEVING
16	23	~~48~~ 43	1010490-198	INSULATION SLEEVING
16	24	4	1016006-001	SPLICE REDUCER
16	25	6	1016006-002	SPLICE REDUCER
16	26	4	1010490-228	INSULATION SLEEVING
16	27	6	1010490-226	INSULATION SLEEVING
16	28	6	1016128-041	BAND, IDENTIFICATION
16	29	1	1016128-011	BAND, IDENTIFICATION
17	30	AR	1012507-004	TAPE, LACING AND TYING
	31	1	1902365-007	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT. NO 22AWG 4 FEET TOTAL LENGTH
	32	1	1902365-008	TUBING, MIL-I-7444, TYPE III, BLK, FLEX 1.00 DIA. 1 FEET TOTAL LENGTH

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 22	
A	1A	1	SHLD A1 E2					.37 NO .37 NO				
A	1L		P4-E P1-2					.22 NO .15 NO			15 13	
A	1R		P4-D P1-3					.22 NO .15 NO			15 13	
A	1Y		P4-F P1-1					.22 NO .15 NO			15 13	
A	2	4			1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 22	
A	2A	1	SHLD A2 E2					.37 NO .37 NO				
A	2L		P4-H P1-5					.22 NO .15 NO			15 13	
A	2R		P4-G P1-6					.22 NO .15 NO			15 13	
A	2Y		P4-J P1-7					.22 NO .15 NO			15 13	
A	3	3			1.75 1.75	1.50 1.50				1 2	A 21, 18, 19 A 23	
A	3A	1	SHLD A3 E2					.37 NO .37 NO				

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3L		P4-L P1-10					.22 NO .15 NO			15 13	
A	3R		P4-K P1-9					.22 NO .15 NO			15 13	
A	4	3			1.75 1.75	1.50 1.50				1 2	A 21, 18, 19 A 23	
A	4A	1	SHLD A4 E2					.37 NO .37 NO				
A	4L		P4-N P1-13					.22 NO .15 NO			15 13	
A	4R		P4-M P1-12					.22 NO .15 NO			15 13	
A	5	3			2.25 2.25	2.00 2.00				3 2	A 21, 18, 19 A 23	
A	5A	1	SHLD A5 P4-M*					.37 NO .22 NO			15	
A	5L		P4-R P1-19					.22 NO .15 NO			15 13	
A	5R		P4-P P1-18					.22 NO .15 NO			15 13	
A	6	3			2.25 2.25	2.00 2.00				1 2	A 21, 18, 19 A 23	
A	6A	1	SHLD A6 E2					.37 NO .37 NO				

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P4-T P1-22					.22 NO .15 NO			15 13	
A	6R		P4-S P1-21					.22 NO .15 NO			15 13	
A	7	3			2.25 2.25	2.00 2.00				1 2	A 21, 18, 19 A 23	
A	7A	1	SHLD A7 E2					.37 NO .37 NO				
A	7L		P4-V P1-25					.22 NO .15 NO			15 13	
A	7R		P4-U P1-24					.22 NO .15 NO			15 13	
A	8	3			2.25 2.25	2.00 2.00				1 2	A 21, 18, 19 A 23	
A	8A	1	SHLD A8 E3					.37 NO .37 NO				
A	8L		P4-X P1-28					.22 NO .15 NO			15 13	
A	8R		P4-W P1-27					.22 NO .15 NO			15 13	
A	9	3			2.75 2.75	2.50 2.50				1 2	A 21, 18, 19 A 23	
A	9A	1	SHLD A9 E3					.37 NO .37 NO				

CABLE W90 1902365 E *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 9L			P4-Z P1-31				.22 .15	NO NO		15 13	
A 9R			P4-Y P1-30				.22 .15	NO NO		15 13	
~~A 10 B~~					~~2.75 2.50~~ ~~2.75 2.50~~				~~3 A 21, 18, 19~~ ~~2 A 23~~		
~~A 10A 1~~			~~SHLD A10~~ ~~P4-GG~~				~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A 10B 1~~			~~P1-34~~ ~~SHLD A10~~				~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 10C~~			~~P4-HH~~ ~~P1-55~~				~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
~~A 11 A~~					~~2.75 2.50~~ ~~2.75 2.50~~				~~3 A 21, 18, 19~~ ~~2 A 23~~		
~~A 11A 1~~			~~SHLD A11~~ ~~P4-LL~~				~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A 11B 1~~			~~P1-38~~ ~~SHLD A11~~				~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 11C~~			~~P4-DD~~ ~~P1-58~~				~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
A 12 3					2.75 2.50 2.75 2.50				3 A 21, 18, 19 2 A 23		
A 12A 1			SHLD A12 P4-G*				.37 .22	NO NO		15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E *	SHEET 10 OF ~~25~~ 27

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CABLE W90 1902365 E *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 12L			P4-I* P1-51				.22 .15	NO NO		15 13	
A 12R			P4-H* P1-50				.22 .15	NO NO		15 13	
A 13 3					3.25 3.25	3.00 3.00			1 A 21, 18, 19 2 A 23		
A 13A 1			SHLD A13 E1				.37 .37	NO NO			
A 13L			P4-KK P1-54				.22 .15	NO NO		15 13	
A 13R			P4-JJ P1-53				.22 .15	NO NO		15 13	
A 14 3					3.25 3.25	3.00 3.00			1 A 21, 18, 19 2 A 23		
A 14A 1			SHLD A14 E1				.37 .37	NO NO			
A 14L			P4-MM P1-57				.22 .15	NO NO		15 13	
A 14R			P4-LL P1-56				.22 .15	NO NO		15 13	
A 15 1			E1 P4-NN				.37 .22	NO NO		15	
A 16 1			P4-Q P1-59				.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 11 OF 25

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CABLE W90 1902365 E *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17 3					3.25 3.25	3.00 3.00			1 A 21, 18, 19 2 A 23		
A 17A 1			SHLD A17 E3				.37 .37	NO NO			
A 17L			P4-S* P6-23				.22 .10	NO NO		15 14	
A 17R			P4-R* P6-31				.22 .10	NO NO		15 14	
A 18 3					3.25 3.25	3.00 3.00			1 A 21, 18, 19 2 A 23		
A 18A 1			SHLD A18 E3				.37 .37	NO NO			
A 18L			P4-U* P6-24				.22 .10	NO NO		15 14	
A 18R			P4-T* P6-32				.22 .10	NO NO		15 14	
A 19 3					3.75 3.75	3.50 3.50			1 A 21, 18, 19 2 A 23		
A 19A 1			SHLD A19 E3				.37 .37	NO NO			
A 19L			P4-W* P6-7				.22 .10	NO NO		15 14	
A 19R			P4-V* P6-15				.22 .10	NO NO		15 14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E *	SHEET 12 OF ~~25~~ 27

MIL 2064 4-63

CABLE W90 1902365 E *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20 3					3.75 3.75	3.50 3.50			1 A 21, 18, 19 2 A 23		
A 20A 1			SHLD A20 E3				.37 .37	NO NO			
A 20L			P4-BB P6-14				.22 .10	NO NO		15 14	
A 20R			P4-AA P6-6				.22 .10	NO NO		15 14	
A 21 3					3.75 3.75	3.50 3.50			1 A 21, 18, 19 2 A 23		
A 21A 1			SHLD A21 E3				.37 .37	NO NO			
A 21L			P4-DD P6-13				.22 .10	NO NO		15 14	
A 21R			P4-CC P6-5				.22 .10	NO NO		15 14	
A 22 1			P4-EE P6-38				.22 .10	NO NO		15 14	
A 23 1			P4-PP P6-37				.22 .10	NO NO		15 14	
A 24 2			E2 E4				.37 .37	NO NO			
A 25 2			E3 E4				.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 13 OF 25

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	1		P1-37 E4				.15 NO .37 NO			13	
A 27	2		E4 P4-P*				.37 NO .22 NO			15	
A 28	4				1.75 1.75	1.50 1.50			1 2	A 21, 19, 20 A 22	
A 28A	1		SHLD A28 E7				.37 NO .37 NO				
A 28L			P5-E P3-8				.22 NO .15 NO			15 13	
A 28R			P5-D P3-36				.22 NO .15 NO			15 13	
A 28Y			P5-F P3-19				.22 NO .15 NO			15 13	
~~A 29~~	~~1~~				~~1.75~~ ~~1.75~~	~~1.50~~ ~~1.50~~			~~3~~ ~~3~~	~~A 21, 19, 20~~ ~~A 23~~	
~~A 29A~~	~~1~~		~~SHLD A29~~ ~~P5-H~~				~~.37 NO~~ ~~.22 NO~~			~~15~~	
~~A 29B~~	~~1~~		~~P5-C*~~ ~~SHLD A29~~				~~.15 NO~~ ~~.37 NO~~			~~13~~	
~~A 29C~~			~~P5-B~~ ~~P3-23~~				~~.22 NO~~ ~~.15 NO~~			~~15~~ ~~13~~	
A 30	3				1.75 1.75	1.50 1.50			3 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 14 OF 27

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30A	1		SHLD A30 P5-I*				.37 NO .22 NO			15	
A 30L			P5-K P3-79				.22 NO .15 NO			15 13	
A 30R			P5-J P3-78				.22 NO .15 NO			15 13	
A 31	3				1.75 1.75	1.50 1.50			1 2	A 21, 19, 20 A 23	
A 31A	1		SHLD A31 E7				.37 NO .37 NO				
A 31L			P5-M P3-83				.22 NO .15 NO			15 13	
A 31R			P5-L P3-82				.22 NO .15 NO			15 13	
A 32	3				2.25 2.25	2.00 2.00			1 2	A 21, 19, 20 A 23	
A 32A	1		SHLD A32 E7				.37 NO .37 NO				
A 32L			P5-P P3-7				.22 NO .15 NO			15 13	
A 32R			P5-N P3-6				.22 NO .15 NO			15 13	
A 33	3				2.25 2.25	2.00 2.00			1 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 15 OF 27

MIL 2064 4-63

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33A	1		SHLD A33 E7				.37 NO .37 NO				
A 33L			P5-S P3-3				.22 NO .15 NO			15 13	
A 33R			P5-R P3-2				.22 NO .15 NO			15 13	
A 34	4				2.25 2.25	2.00 2.00			1 2	A 21, 19, 20 A 22	
A 34A	1		SHLD A34 E7				.37 NO .37 NO				
A 34L			P5-U P3-5				.22 NO .15 NO			15 13	
A 34R			P5-T P3-33				.22 NO .15 NO			15 13	
A 34Y			P5-V P3-16				.22 NO .15 NO			15 13	
~~A 35~~	~~1~~				~~2.25~~ ~~2.25~~	~~2.00~~ ~~2.00~~			~~3~~ ~~3~~	~~A 21, 19, 20~~ ~~A 23~~	
~~A 35A~~	~~1~~		~~SHLD A35~~ ~~P5-K~~				~~.37 NO~~ ~~.22 NO~~			~~15~~	
~~A 35B~~	~~1~~		~~P3-15~~ ~~SHLD A35~~				~~.15 NO~~ ~~.37 NO~~			~~13~~	
~~A 35C~~			~~P5-N~~ ~~P3-34~~				~~.22 NO~~ ~~.15 NO~~			~~15~~ ~~13~~	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 16 OF 27

MIL 2064 4-63

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 36	1		P5-Y P3-37				.22 NO .15 NO			15 13	
A 37	3				2.75 2.75	2.50 2.50			3 2	A 21, 19, 20 A 23	
A 37A	1		SHLD A37 P5-V*				.37 NO .22 NO			15	
A 37L			P5-C* P3-91				.22 NO .15 NO			15 13	
A 37R			P5-B* P3-90				.22 NO .15 NO			15 13	
A 38	3				2.75 2.75	2.50 2.50			1 2	A 21, 19, 20 A 23	
A 38A	1		SHLD A38 E7				.37 NO .37 NO				
A 38L			P5-E* P3-87				.22 NO .15 NO			15 13	
A 38R			P5-D* P3-86				.22 NO .15 NO			15 13	
A 39	3				2.75 2.75	2.50 2.50			1 2	A 21, 19, 20 A 23	
A 39A	1		SHLD A39 E7				.37 NO .37 NO				
A 39L			P5-H* P3-41				.22 NO .15 NO			15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 17 OF 27

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	39R		P5-G* P3-40				.22 .15	NO NO		15 13	
A	40	3			2.75 2.75	2.50 2.50			1 2	A 21, 19, 20 A 23	
A	40A	1	SHLD A40 E8				.37 .37	NO NO			
A	40L		P5-JJ E5				.22 .37	NO NO		15	
A	40R		P5-HH P3-12				.22 .15	NO NO		15 13	
A	41	1	E5 P3-13				.37 .15	NO NO		13	
A	42	1	E5 P3-14				.37 .15	NO NO		13	
A	43	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	
A	43A	1	SHLD A43 E8				.37 .37	NO NO			
A	43L		P5-K* P3-38				.22 .15	NO NO		15 13	
A	43R		P5-J* P3-39				.22 .15	NO NO		15 13	
A	44	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 18 OF 25

MIL 2084 4-63

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	44A	1	SHLD A44 E8				.37 .37	NO NO			
A	44L		P5-Q* P3-55				.22 .15	NO NO		15 13	
A	44R		P5-P* P3-32				.22 .15	NO NO		15 13	
A	45	3			3.25 3.25	3.00 3.00			T 2	A 21, 19, 20 A 23	
A	45A	1	SHLD A45 E8				.37 .37	NO NO			
A	45L		P5-S* P3-70				.22 .15	NO NO		15 13	
A	45R		P5-R* P3-71				.22 .15	NO NO		15 13	
A	46	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	
A	46A	1	SHLD A46 E8				.37 .37	NO NO			
A	46L		P5-U* P3-85				.22 .15	NO NO		15 13	
A	46R		P5-T* P3-84				.22 .15	NO NO		15 13	
A	47	3			3.75 3.75	3.50 3.50			3 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 19 OF 25

27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	47A	1	SHLD A47 P5-PP				.37 .22	NO NO		15	
A	47L		P5-X* P3-44				.22 .15	NO NO		15 13	
A	47R		P5-W* P3-43				.22 .15	NO NO		15 13	
A	48	3			3.75 3.75	3.50 3.50			1 2	A 21, 19, 20 A 23	
A	48A	1	SHLD A48 E8				.37 .37	NO NO			
A	48L		P5-Z* P3-77				.22 .15	NO NO		15 13	
A	48R		P5-Y* P3-76				.22 .15	NO NO		15 13	
A	49	5									
A	49L		P5-AA P3-68				.22 .15	NO NO		15 13	
A	49R		P5-BB P3-69				.22 .15	NO NO		15 13	
A	50	1	P5-CC P3-1				.22 .15	NO NO		15 13	
A	51	2	P5-DD E10				.22 .37	NO NO		15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 20 OF 25

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	52		DELETED								
A	52A		DELETED								
A	52L		DELETED								
A	52R		DELETED								
A	53	3			3.75 3.75	3.50 3.50			1 2	A 21, 19, 20 A 23	
A	53A	1	SHLD A53 E8				.37 .37	NO NO			
A	53L		P5-FF P3-89				.22 .15	NO NO		15 13	
A	53R		P5-EE P3-88				.22 .15	NO NO		15 13	
A	54	3			1.75 4.25	1.50 4.00			2 1	A 23 A 21, 19, 20	
A	54B	1	E9 SHLD A54				.37 .37	NO NO			
A	54L		P6-28 P3-11				.10 .15	NO NO		14 13	
A	54R		P6-27 P3-10				.10 .15	NO NO		14 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 21 OF 25

27

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	55	3			1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A	55B	1	E9 SHLD A55					.37 .37	NO NO			
A	55L		P6-36 P3-18					.10 .15	NO NO		14 13	
A	55R		P6-35 P3-17					.10 .15	NO NO		14 13	
A	56	3			1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A	56B	1	E9 SHLD A56					.37 .37	NO NO			
A	56L		P6-10 E6					.10 .37	NO NO		14	
A	56R		P6-2 P3-64					.10 .15	NO NO		14 13	
A	57	1	E6 P3-65					.37 .15	NO NO		13	
A	58	1	E6 P3-73					.37 .15	NO NO		13	
A	59	31			1.75 4.25	1.50 4.00				1 2	A 23, 16, 17 A 23	
A	59A	1	SHLD A59 E10					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 22 OF 27

MIL 2066 4-63

27

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	59W		P6-1 P3-72					.10 .15	NO NO		14 13	
A	60	3			1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A	60B	1	E9 SHLD A60					.37 .37	NO NO			
A	60L		P2-D2 P3-30					.15 .15	NO NO		13 13	
A	60R		P2-D1 P3-27					.15 .15	NO NO		13 13	
A	61	3			1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A	61B	1	E9 SHLD A61					.37 .37	NO NO			
A	61L		P2-F1 P3-59					.15 .15	NO NO		13 13	
A	61R		P2-F2 P3-58					.15 .15	NO NO		13 13	
A	62	3			1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A	62B	1	E10 SHLD A62					.37 .37	NO NO			
A	62L		P2-E2 P5-LL					.15 .22	NO NO		13 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 23 OF 27

MIL 2066 4-63

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	62R		P2-E1 P5-KK					.15 .22	NO NO		13 15	
A	63	2	E7 E10					.37 .37	NO NO			
A	64	2	E8 E10					.37 .37	NO NO			
A	65	2	E9 E10					.37 .37	NO NO			
A	66	1	E9 P3-9					.37 .15	NO NO		13	
A	67	1	P4-A* P1-35					.22 .15	NO NO		15 13	
~~A~~	~~68~~	~~6~~			~~3.75 3.75~~	~~3.50 3.50~~				~~3~~ ~~3~~	~~A 23, 16, 17~~ ~~A 23, 16, 17~~	
~~A~~	~~68A~~	~~1~~	~~SHLD A68 P5-NN~~					~~.37~~	~~NO~~		~~15~~	
~~A~~	~~68B~~	~~1~~	~~P3-84 SHLD A68~~					~~.37~~	~~NO~~		~~13~~	
~~A~~	~~68E~~		~~P5-NN P3-84~~								~~15 13~~	
A	69	3			2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A	69A	1	SHLD A69 P4-C *					.37 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 24 OF ~~25~~ 27

27

CABLE W90 1902365 E

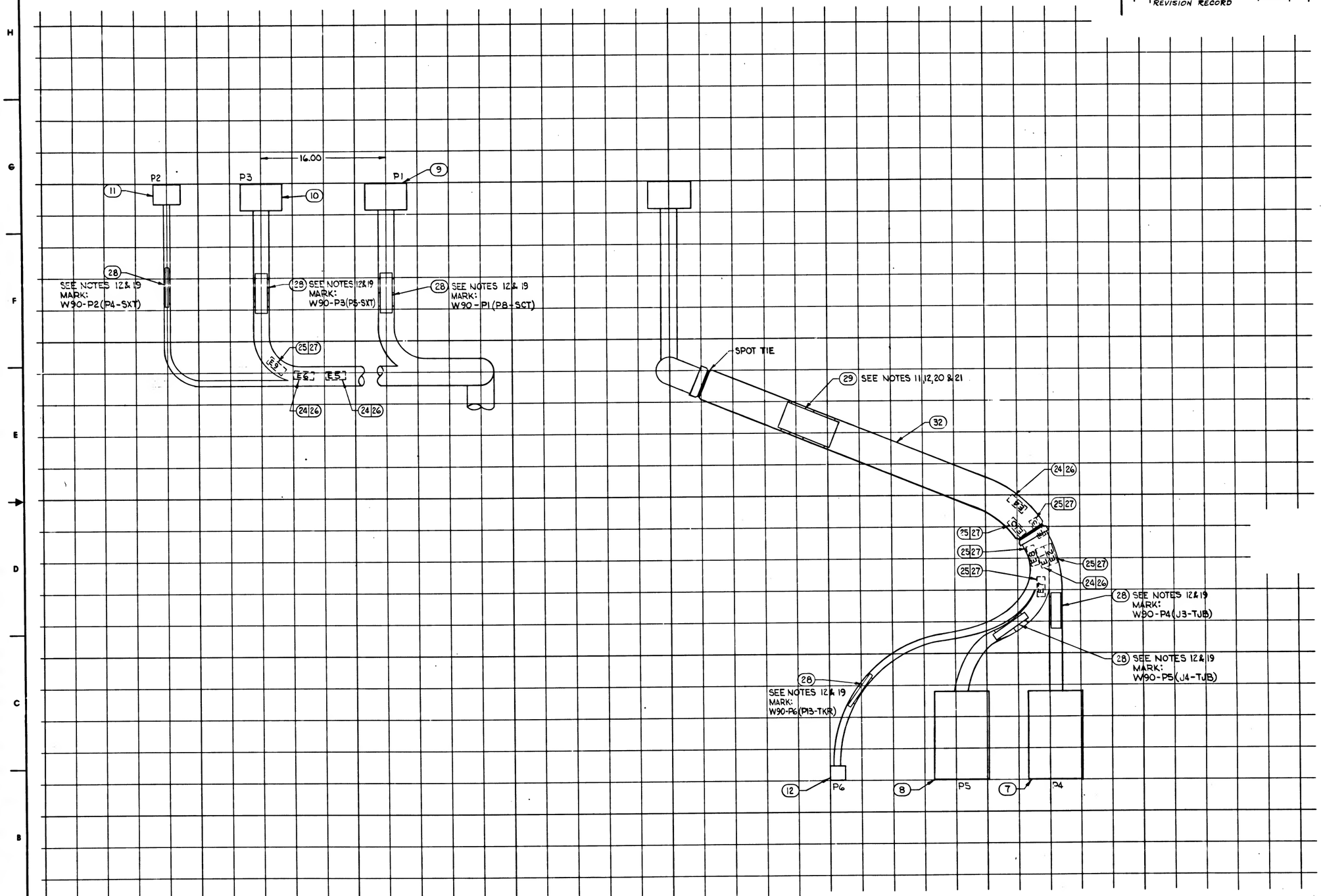
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	69R		P4-B* P1-33					.22 .15	NO NO		15 13	
A	69L		P4-C* P1-34					.22 .15	NO NO		15 13	
A	70				2.75 2.75	2.50 2.50				3 2	A21, 18, 19 A23,	
A	70A		SHLD A70 P4-E*					.37 .22	NO NO			
A	70R		P4-D* P1-38					.22 .15	NO NO		15 13	
A	70L		P4-E* P1-39					.22 .15	NO NO		15 13	
A	71				1.75 1.75	1.50 1.50				3 2	A 21, 18, 19 A 23	
A	71A		SHLD A71 P5-H					.37 .22	NO NO			
A	71R		P5-G P3-23					.22 .15	NO NO		15 13	
A	71L		P5-H P3-2,					.22 .15	NO NO		15 13	
A	72				2.25 2.25	2.00 2.00				3 2	A 21, 18, 19 A 23	
A	72A		SHLD A72 P5-X					.37 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | REVISION E | NASA DRAWING NO. 1902365 | SHEET 25 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT. STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE FIG	ACCESSORY ITEMS	REMARKS
A	72R		P5-W P3-34					.22 .16	NO NO		15 13	
A	72L		P6-X P3-35					.22 .15	NO NO		15 13	
A	73				3.75 3.75	3.50 3.50				3 2	A21, 18, 19 A23	
A	73A		SHLD A73 P5-NN					.37 .22	NO NO			
A	73R		P5-MM P3-80					.22 .15	NO NO		15 13	
A	73L		P5-NN P3-81					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	E	1902365
		SHEET 26 OF 27

REVISIONS					17 X 40
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		FRACTIONS ± DECIMALS ± ANGLES ±	ACSP PN	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL W90	
		DO NOT SCALE THIS DRAWING	DRAWN S Ogma DATE 8FEB65		
		MATERIAL	CHECKED J Sain 15FEB65		
1902299-011	1902299-011		APPROVAL R Pierce 15FEB65		
NEXT ASSY	USED ON		APPROVAL	CODE IDENT NO.	SIZE 1902365
APPLICATION		CONTRACT NAS 9-497	NASA APPROVAL	SCALE 1/1	SHEET 2 OF 27
			MIT APPROVAL		

1902365 E

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011 (M)	E	UPGRADED TO CLASS 'A' RELEASE PER TDRR 17840	24 MAR 65	CW
		F	REVISED PER TDRR 20508	3 JUL 65	J J J MEM

Charleston 15FEB65

| | | |

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION----
FIG.1 IS FIG.4 OF ND1002206
FIG.2 IS FIG.7 OF ND1002032
FIG.3 IS FIG.5 OF ND1002206

2 ASSEMBLY PER ND1002032

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.

~~5 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~

~~6 SPIRALLING OF THE MARKING IS ALLOWED.~~

7 MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.

8 MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

9 A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.

10 LACE HARNESS USING ITEM 30.

11 IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).

12 FASTEN MARKER SECURELY WITH ITEM 30. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.

13 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 2 OF 25

MIL 3086 4-63

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NOTE NUMBER | GENERAL NOTES DESCRIPTION

15 BREAKOUTS OF INDIVIDUAL OR GROUPS OR LEADS ARE MINIMUM CONFIGURATION.

16 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

17 VENDOR ITEM - SEE SOURCE CONTROL DRAWING.

18 GRID MODULE IS 1 INCH BASIC.

19 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR BLACK, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.

20 SERIALIZE PER ND1002023.

21 MARK IDENTIFICATION BAND AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.

22 THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING.
A - FROM ENU SHIELD
B - TO END SHIELD
E - GRAY
L - WHITE WITH BLUE TRACER, WHITE WITH LETTER L
R - WHITE WITH RED TRACER, WHITE WITH LETTER R
W - WHITE
Y - WHITE WITH YELLOW TRACER

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 3 OF 25

27

NOTE NUMBER | GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 4 OF 25

MIL 2086 4-63

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SEE NOTE NUMBER | ITEM | QTY | LIST OF MATERIALS PART NO. | DESCRIPTION

ITEM	QTY	PART NO.	DESCRIPTION
1	1	1902365-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 22AWG 100 FEET TOTAL LENGTH
2	1	1902365-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 20AWG 6 FEET TOTAL LENGTH
3	1	1902365-003	WIRE ND1002181 TYPE 2, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED ~~238~~ 134 FT. TOTAL LENGTH.
4	1	1902365-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED, WHT/YEL 23 FT. TOT. LG
5	1	1902365-005	WIRE ND1002181 TYPE 2, CLASS 1, T2 NO 22AWG WHT. WITH LETTER L, WHT. WITH LETTER R, 4 FEET TOTAL LENGTH
~~6~~	~~1~~	~~1902365-006~~	~~WIRE COAXIAL MIL-C-17/69A RG 188A/U 30 FEET TOTAL LENGTH.~~
7	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG ELEC CRIMP TYPE
8	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG ELEC CRIMP TYPE
9	1	1010771-207	CONN. SOCKET ELEC CRIMP TYPE
10	1	1010771-201	CONN. SOCKET ELEC CRIMP TYPE
11	1	1010809-001	CONN. PLUG ELEC
12	1	1897189- 1	CONN. RECEPTACLE, ELEC.
13	164	1010770- 2	SOCKET CONTACT CRIMP
14	38	1010738- 6	SOCKET CONTACT CRIMP
15	122	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 5 OF 25

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
16	16	1	1000243- 4	FERRULE ELEC COND
16	17	1	1000242- 4	FERRULE ELEC COND
16	18	36	1000243- 10	FERRULE ELEC COND
16	19	39	1000242- 11	FERRULE ELEC COND
16	20	3	1000243- 11	FERRULE ELEC COND
16	21	39	1010490-194	INSULATION SLEEVING
16	22	4	1010490-196	INSULATION SLEEVING
16	23	43	1010490-198	INSULATION SLEEVING
16	24	4	1016006-001	SPLICE REDUCER
16	25	6	1016006-002	SPLICE REDUCER
16	26	4	1013490-228	INSULATION SLEEVING
16	27	6	1010490-226	INSULATION SLEEVING
16	28	6	1016128-041	BAND, IDENTIFICATION
16	29	2	1016128-011	BAND, IDENTIFICATION
17	30	AR	1012507-004	TAPE, LACING AND TYING
	31	1	1902365-007	WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT. NO 22AWG 4 FEET TOTAL LENGTH
	32	1	1902365-008	TUBING, MIL-I-7444, TYPE III, BLK, FLEX 1.00 DIA. 1 FEET TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365
SCALE-NONE | REV LTR F | SHEET 6 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 22	
A	1A	1	SHLD A1 E2					.37 .37	NO NO			
A	1L		P4-E P1-2					.22 .15	NO NO		15 13	
A	1R		P4-D P1-3					.22 .15	NO NO		15 13	
A	1Y		P4-F P1-1					.22 .15	NO NO		15 13	
A	2	4			1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 22	
A	2A	1	SHLD A2 E2					.37 .37	NO NO			
A	2L		P4-H P1-5					.22 .15	NO NO		15 13	
A	2R		P4-G P1-6					.22 .15	NO NO		15 13	
A	2Y		P4-J P1-7					.22 .15	NO NO		15 13	
A	3	3			1.75 1.75	1.50 1.50				1 2	A 21, 18, 19 A 23	
A	3A	1	SHLD A3 E2					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365
SCALE-NONE | REV LTR E | SHEET 7 OF 25

MIL 2064 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3L		P4-L P1-10					.22 .15	NO NO		15 13	
A	3R		P4-K P1-9					.22 .15	NO NO		15 13	
A	4	3			1.75 1.75	1.50 1.50				1 2	A 21, 18, 19 A 23	
A	4A	1	SHLD A4 E2					.37 .37	NO NO			
A	4L		P4-N P1-13					.22 .15	NO NO		15 13	
A	4R		P4-M P1-12					.22 .15	NO NO		15 13	
A	5	3			2.25 2.25	2.00 2.00				3 2	A 21, 18, 19 A 23	
A	5A	1	SHLD A5 P4-M*					.37 .22	NO NO		 15	
A	5L		P4-R P1-19					.22 .15	NO NO		15 13	
A	5R		P4-P P1-18					.22 .15	NO NO		15 13	
A	6	3			2.25 2.25	2.00 2.00				1 2	A 21, 18, 19 A 23	
A	6A	1	SHLD A6 E2					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365
SCALE-NONE | REV LTR E | SHEET 8 OF 25

MIL 2064 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P4-T P1-22					.22 .15	NO NO		15 13	
A	6R		P4-S P1-21					.22 .15	NO NO		15 13	
A	7	3			2.25 2.25	2.00 2.00				1 2	A 21, 18, 19 A 23	
A	7A	1	SHLD A7 E2					.37 .37	NO NO			
A	7L		P4-V P1-25					.22 .15	NO NO		15 13	
A	7R		P4-U P1-24					.22 .15	NO NO		15 13	
A	8	3			2.25 2.25	2.00 2.00				1 2	A 21, 18, 19 A 23	
A	8A	1	SHLD A8 E3					.37 .37	NO NO			
A	8L		P4-X P1-28					.22 .15	NO NO		15 13	
A	8R		P4-W P1-27					.22 .15	NO NO		15 13	
A	9	3			2.75 2.75	2.50 2.50				1 2	A 21, 18, 19 A 23	
A	9A	1	SHLD A9 E3					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365
SCALE-NONE | REV LTR E | SHEET 9 OF 25

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	9L		P4-Z P1-31					.22 .15	NO NO		15 13	
A	9R		P4-Y P1-30					.22 .15	NO NO		15 13	
~~A~~	~~10~~	~~6~~			~~2.75~~ ~~2.75~~	~~2.50~~ ~~2.50~~				~~3~~ ~~3~~	~~A 21, 18, 19~~ ~~A 23~~	
~~A~~	~~10A~~	~~1~~	~~SHLD A10~~ ~~P4-P*~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A~~	~~10B~~	~~1~~	~~P1-34~~ ~~SHLD A10~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A~~	~~10C~~		~~P4-U*~~ ~~P1-33~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
~~A~~	~~11~~	~~6~~			~~2.75~~ ~~2.75~~	~~2.50~~ ~~2.50~~				~~3~~ ~~3~~	~~A 21, 18, 19~~ ~~A 23~~	
~~A~~	~~11A~~	~~1~~	~~SHLD A11~~ ~~P4-L*~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A~~	~~11B~~	~~1~~	~~P1-36~~ ~~SHLD A11~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A~~	~~11C~~		~~P4-D*~~ ~~P1-35~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
A	12	3			2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A	12A	1	SHLD A12 P4-G*					.37 .22	NO NO		15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E *	SHEET 10 OF ~~25~~

MIL 8084 4-63

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12L		P4-I* P1-51					.22 .15	NO NO		15 13	
A	12R		P4-H* P1-50					.22 .15	NO NO		15 13	
A	13	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	13A	1	SHLD A13 E1					.37 .37	NO NO			
A	13L		P4-KK P1-54					.22 .15	NO NO		15 13	
A	13R		P4-JJ P1-53					.22 .15	NO NO		15 13	
A	14	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	14A	1	SHLD A14 E1					.37 .37	NO NO			
A	14L		P4-MM P1-57					.22 .15	NO NO		15 13	
A	14R		P4-LL P1-56					.22 .15	NO NO		15 13	
A	15	1	E1 P4-NN					.37 .22	NO NO		15	
A	16	1	P4-Q P1-59					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 11 OF ~~25~~

MIL 8084 4-63

27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	17	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	17A	1	SHLD A17 E3					.37 .37	NO NO			
A	17L		P4-S* P6-23					.22 .10	NO NO		15 14	
A	17R		P4-R* P6-31					.22 .10	NO NO		15 14	
A	18	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	18A	1	SHLD A18 E3					.37 .37	NO NO			
A	18L		P4-U* P6-24					.22 .10	NO NO		15 14	
A	18R		P4-T* P6-32					.22 .10	NO NO		15 14	
A	19	3			3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A	19A	1	SHLD A19 E3					.37 .37	NO NO			
A	19L		P4-W* P6-7					.22 .10	NO NO		15 14	
A	19R		P4-V* P6-15					.22 .10	NO NO		15 14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E *	SHEET 12 OF ~~25~~

MIL 8084 4-63

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	20	3			3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A	20A	1	SHLD A20 E3					.37 .37	NO NO			
A	20L		P4-BB P6-14					.22 .10	NO NO		15 14	
A	20R		P4-AA P6-6					.22 .10	NO NO		15 14	
A	21	3			3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A	21A	1	SHLD A21 E3					.37 .37	NO NO			
A	21L		P4-DD P6-13					.22 .10	NO NO		15 14	
A	21R		P4-CC P6-5					.22 .10	NO NO		15 14	
A	22	1	P4-EE P6-38					.22 .10	NO NO		15 14	
A	23	1	P4-PP P6-37					.22 .10	NO NO		15 14	
A	24	2	E2 E4					.37 .37	NO NO			
A	25	2	E3 E4					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 13 OF ~~25~~

MIL 8084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	26	1	P1-37 E4					.15 .37	NO NO		13	
A	27	2	E4 P4-P*					.37 .22	NO NO		15	
A	28	4			1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 22	
A	28A	1	SHLD A28 E7					.37 .37	NO NO			
A	28L		P5-E P3-8					.22 .15	NO NO		15 13	
A	28R		P5-D P3-36					.22 .15	NO NO		15 13	
A	28Y		P5-F P3-19					.22 .15	NO NO		15 13	
~~A~~	~~29~~	~~C~~			~~1.75~~ ~~1.75~~	~~1.50~~ ~~1.50~~				~~3~~ ~~3~~	~~A 21, 19, 17~~ ~~A 23, 18, 17~~	
~~A~~	~~29A~~	~~1~~	~~SHLD A29~~ ~~P5-H~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A~~	~~29B~~	~~1~~	~~P5-G~~ ~~SHLD A29~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A~~	~~29C~~		~~P5-D~~ ~~P3-23~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
A	30	3			1.75 1.75	1.50 1.50				3 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E *	SHEET 14 OF 27

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	30A	1	SHLD A30 P5-I*					.37 .22	NO NO		15	
A	30L		P5-K P3-79					.22 .15	NO NO		15 13	
A	30R		P5-J P3-78					.22 .15	NO NO		15 13	
A	31	3			1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 23	
A	31A	1	SHLD A31 E7					.37 .37	NO NO			
A	31L		P5-M P3-83					.22 .15	NO NO		15 13	
A	31R		P5-L P3-82					.22 .15	NO NO		15 13	
A	32	3			2.25 2.25	2.00 2.00				1 2	A 21, 19, 20 A 23	
A	32A	1	SHLD A32 E7					.37 .37	NO NO			
A	32L		P5-P P3-7					.22 .15	NO NO		15 13	
A	32R		P5-N P3-6					.22 .15	NO NO		15 13	
A	33	3			2.25 2.25	2.00 2.00				1 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 15 OF 27

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	33A	1	SHLD A33 E7					.37 .37	NO NO			
A	33L		P5-S P3-3					.22 .15	NO NO		15 13	
A	33R		P5-R P3-2					.22 .15	NO NO		15 13	
A	34	4			2.25 2.25	2.00 2.00				1 2	A 21, 19, 20 A 22	
A	34A	1	SHLD A34 E7					.37 .37	NO NO			
A	34L		P5-U P3-5					.22 .15	NO NO		15 13	
A	34R		P5-T P3-33					.22 .15	NO NO		15 13	
A	34Y		P5-V P3-16					.22 .15	NO NO		15 13	
~~A~~	~~35~~	~~C~~			~~2.25~~ ~~2.25~~	~~2.00~~ ~~2.00~~				~~3~~ ~~3~~	~~A 21, 19, 17~~ ~~A 23, 18, 17~~	
~~A~~	~~35A~~	~~1~~	~~SHLD A35~~ ~~P5-K~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A~~	~~35B~~	~~1~~	~~P5-J~~ ~~SHLD A35~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A~~	~~35C~~		~~P5-V~~ ~~P3-34~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E *	SHEET 16 OF 27

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	36	1	P5-Y P3-37					.22 .15	NO NO		15 13	
A	37	3			2.75 2.75	2.50 2.50				3 2	A 21, 19, 20 A 23	
A	37A	1	SHLD A37 P5-V*					.37 .22	NO NO		15	
A	37L		P5-C* P3-91					.22 .15	NO NO		15 13	
A	37R		P5-B* P3-90					.22 .15	NO NO		15 13	
A	38	3			2.75 2.75	2.50 2.50				1 2	A 21, 19, 20 A 23	
A	38A	1	SHLD A38 E7					.37 .37	NO NO			
A	38L		P5-E* P3-87					.22 .15	NO NO		15 13	
A	38R		P5-D* P3-86					.22 .15	NO NO		15 13	
A	39	3			2.75 2.75	2.50 2.50				1 2	A 21, 19, 20 A 23	
A	39A	1	SHLD A39 E7					.37 .37	NO NO			
A	39L		P5-H* P3-41					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR * E	SHEET 17 OF 27

MIL 2084 4-83

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	39R		P5-G* P3-4C				.22 .15	NO NO		15 13	
A	40	3			2.75 2.75	2.50 2.50			1 2	A 21, 19, 20 A 23	
A	40A	1	SHLD A40 E8				.37 .37	NO NO			
A	40L		P5-JJ E5				.22 .37	NO NO		15	
A	40R		P5-HH P3-12				.22 .15	NO NO		15 13	
A	41	1	E5 P3-13				.37 .15	NO NO		13	
A	42	1	E5 P3-14				.37 .15	NO NO		13	
A	43	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	
A	43A	1	SHLD A43 E8				.37 .37	NO NO			
A	43L		P5-K* P3-38				.22 .15	NO NO		15 13	
A	43R		P5-J* P3-39				.22 .15	NO NO		15 13	
A	44	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 18 OF 25

MIL 2084 4-63

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	44A	1	SHLD A44 E8				.37 .37	NO NO			
A	44L		P5-Q* P3-55				.22 .15	NO NO		15 13	
A	44R		P5-P* P3-32				.22 .15	NO NO		15 13	
A	45	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	
A	45A	1	SHLD A45 E8				.37 .37	NO NO			
A	45L		P5-S* P3-70				.22 .15	NO NO		15 13	
A	45R		P5-R* P3-71				.22 .15	NO NO		15 13	
A	46	3			3.25 3.25	3.00 3.00			1 2	A 21, 19, 20 A 23	
A	46A	1	SHLD A46 E8				.37 .37	NO NO			
A	46L		P5-U* P3-85				.22 .15	NO NO		15 13	
A	46R		P5-T* P3-84				.22 .15	NO NO		15 13	
A	47	3			3.75 3.75	3.50 3.50			3 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 19 OF 25

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	47A	1	SHLD A47 P5-PP				.37 .22	NO NO		15	
A	47L		P5-X* P3-44				.22 .15	NO NO		15 13	
A	47R		P5-W* P3-43				.22 .15	NO NO		15 13	
A	48	3			3.75 3.75	3.50 3.50			1 2	A 21, 19, 20 A 23	
A	48A	1	SHLD A48 E8				.37 .37	NO NO			
A	48L		P5-Z* P3-77				.22 .15	NO NO		15 13	
A	48R		P5-Y* P3-76				.22 .15	NO NO		15 13	
A	49	5									
A	49L		P5-AA P3-68				.22 .15	NO NO		15 13	
A	49R		P5-BB P3-69				.22 .15	NO NO		15 13	
A	50	1	P5-CC P3-1				.22 .15	NO NO		15 13	
A	51	2	P5-DD E10				.22 .37	NO NO		15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 20 OF 25

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	52		DELETED								
A	52A		DELETED								
A	52L		DELETED								
A	52R		DELETED								
A	53	3			3.75 3.75	3.50 3.50			1 2	A 21, 19, 20 A 23	
A	53A	1	SHLD A53 E8				.37 .37	NO NO			
A	53L		P5-FF P3-89				.22 .15	NO NO		15 13	
A	53R		P5-EE P3-88				.22 .15	NO NO		15 13	
A	54	3			1.75 4.25	1.50 4.00			2 1	A 23 A 21, 19, 20	
A	54B	1	E9 SHLD A54				.37 .37	NO NO			
A	54L		P6-28 P3-11				.10 .15	NO NO		14 13	
A	54R		P6-27 P3-10				.10 .15	NO NO		14 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 21 OF 25

27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 55B	1		E9 SHLD A55					.37 .37	NO NO			
A 55L			P6-36 P3-18					.10 .15	NO NO		14 13	
A 55R			P6-35 P3-17					.10 .15	NO NO		14 13	
A 56	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 56B	1		E9 SHLD A56					.37 .37	NO NO			
A 56L			P6-10 E6					.10 .37	NO NO		14	
A 56R			P6-2 P3-64					.10 .15	NO NO		14 13	
A 57	1		E6 P3-65					.37 .15	NO NO		13	
A 58	1		E6 P3-73					.37 .15	NO NO		13	
A 59	31				1.75 4.25	1.50 4.00				1 2	A 23, 16, 17 A 23	
A 59A	1		SHLD A59 E10					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E	SHEET 22 OF 27

MIL 2064 4-63

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 59W			P6-1 P3-72					.10 .15	NO NO		14 13	
A 60	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 60B	1		E9 SHLD A60					.37 .37	NO NO			
A 60L			P2-02 P3-30					.15 .15	NO NO		13 13	
A 60R			P2-01 P3-27					.15 .15	NO NO		13 13	
A 61	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 61B	1		E9 SHLD A61					.37 .37	NO NO			
A 61L			P2-F1 P3-59					.15 .15	NO NO		13 13	
A 61R			P2-F2 P3-56					.15 .15	NO NO		13 13	
A 62	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 62B	1		E10 SHLD A62					.37 .37	NO NO			
A 62L			P2-E2 P5-LL					.15 .22	NO NO		13 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E	SHEET 23 OF 27

MIL 2064 4-63

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P2-E1 P5-KK					.15 .22	NO NO		13 15	
A 63	2		E7 E10					.37 .37	NO NO			
A 64	2		E8 E10					.37 .37	NO NO			
A 65	2		E9 E10					.37 .37	NO NO			
A 66	1		E9 P3-9					.37 .15	NO NO		13	
A 67	1		P4-A* P1-35					.22 .15	NO NO		15 13	
~~A 68~~	~~2~~				~~3.75~~ ~~3.75~~	~~3.50~~ ~~3.50~~				~~3~~ ~~2~~	~~A 23, 16, 17~~ ~~A 23, 16, 17~~	
~~A 68A~~	~~1~~		~~SHLD A68~~ ~~P5-NN~~					~~.37~~	~~NO~~		~~15~~	
~~A 68B~~	~~1~~		~~P3-01~~ ~~SHLD A68~~					~~.37~~	~~NO~~		~~13~~	
~~A 68C~~			~~P5-MM~~ ~~P3-01~~								~~15~~ ~~13~~	
A 69	3				2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A 69A	1		SHLD A69 P4-C *					.37 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR E	SHEET 24 OF 27

27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69R			P4-B* P1-33					.22 .15	NO NO		15 13	
A 69L			P4-C* P1-34					.22 .15	NO NO		15 13	
A 70					2.75 2.75	2.50 2.50				3 2	A21, 18, 19 A23,	
A 70A			SHLD A70 P4-E*					.37 .22	NO NO			
A 70R			P4-D* P1-38					.22 .15	NO NO		15 13	
A 70L			P4-E* P1-39					.22 .15	NO NO		15 13	
A 71					1.75 1.75	1.50 1.50				3 2	A 21, 18, 19 A 23	
A 71A			SHLD A71 P5-W					.37 .22	NO NO			
A 71R			P5-G P3-23					.22 .15	NO NO		15 13	
A 71L			P5-W P3-24					.22 .15	NO NO		15 13	
A 72					2.25 2.25	2.00 2.00				3 2	A 21, 18, 19 A 23	
A 72A			SHLD A72 P5-X					.37 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION E	NASA DRAWING NO. 1902365
		SHEET 25 OF 27

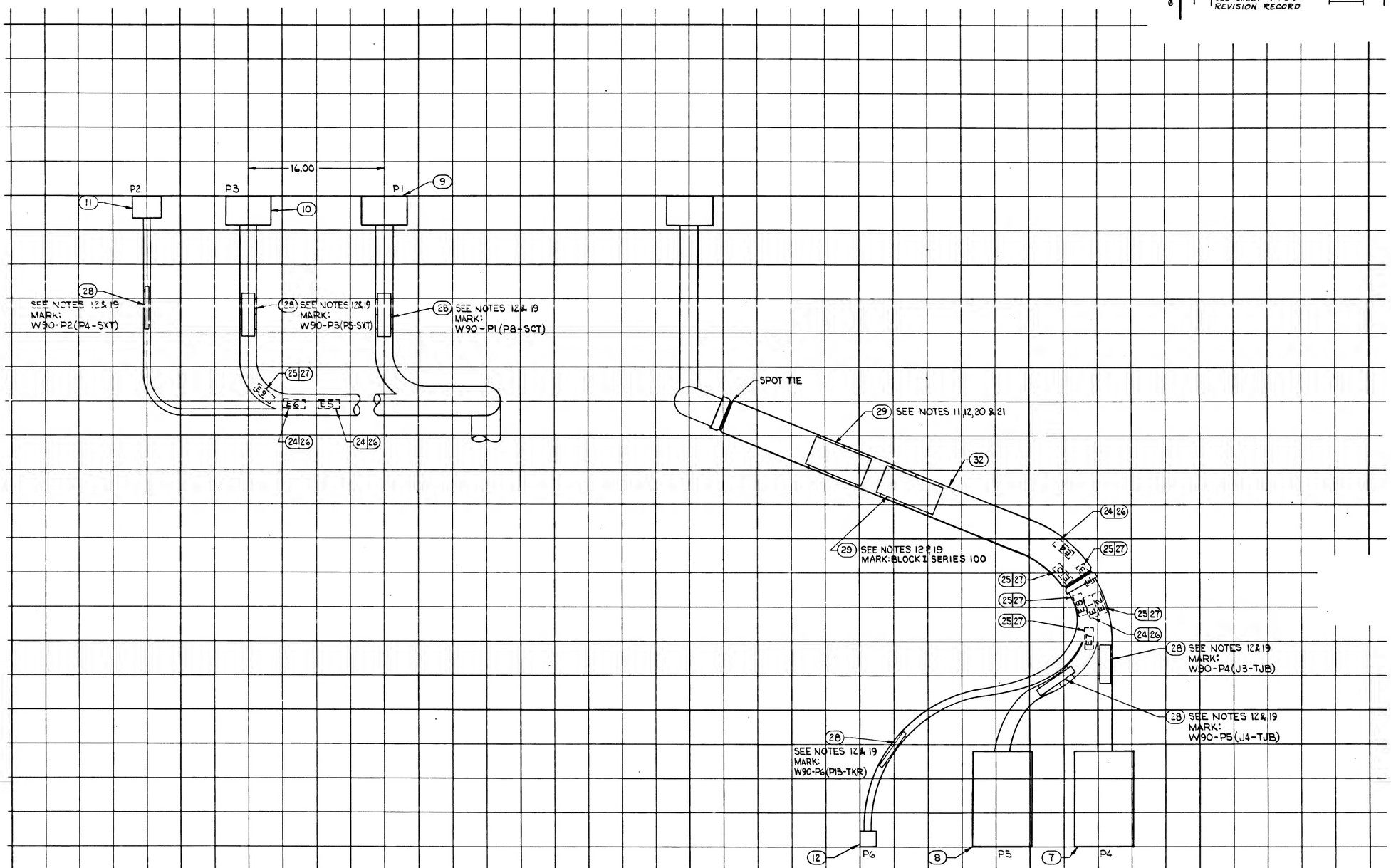
CABLE W90 ↓ 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT. STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE FIG	ACCESSORY ITEMS	REMARKS
A	72R		P5-W P3-34					.22 .15	NO NO		15 13	
A	72L		P5-X P3-35					.22 .15	NO NO		15 13	
A	73				3.75 3.75	3.50 3.50				3 2	A21, 18, 19 A23	
A	73A		SHLD A73 P5-NN					.37 .22	NO NO			
A	73R		P5-MM P3-80					.22 .15	NO NO		15 13	
A	73L		P5-NN P3-81					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	E	1902365
		SHEET 26 OF 27

↑

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



1902299-011	1902299-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN
NEXT ASSY	USED ON	FRACTIONS DECIMALS ANGLES ± ± ±	ACSP PN
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN 8 FEB 65
		MATERIAL	CHECKED 5 FEB 65
		CONTRACT NAS9-497	APPROVAL
			APPROVAL
			NASA APPROVAL
			MIT APPROVAL

MANNED SPACECRAFT CENTER HOUSTON TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL W90

CODE IDENT NO 99974 | SIZE | 1902365 | SCALE 1/1 | SHEET 2 OF 27

1902365 F

APPLICATION		REVISIONS 17 N 11			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	E (M)	UPGRADED TO CLASS 'A' RELEASE PER TDRR 17840	24 MAR 65	CWT
		F (N)	REVISED PER TDRR20508	3 JUL 65	JJJ MEM
		G	REVISED PER TDRR21033	27 JUL 65	ELP EF

Charleston 15 FEB 65

REV	G	G	E	G	G	G																
SHEET	22	23	24	25	26	27																
REV STATUS	REV	G		E	E	E	G	G	E	E	E	E	G	E	E	E	E	E	E	E	E	E
OF SHEETS	SHEET	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN L. Agne DATE 5 FEB 65
CHECKED R. Parini 15 FEB 65
APPROVAL R. Parini 15 FEB '65
APPROVAL J. M. Watson 2-16-65

CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL W90

NASA APPROVAL
MIT APPROVAL
CONTRACT NAS 9-497

CODE IDENT NO.	SIZE		REV
99974	A	1902365	G

SCALE NONE SHEET 1 OF 27

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION---- FIG.1 IS FIG.4 OF ND1002206 FIG.2 IS FIG.7 OF ND1002032 FIG.3 IS FIG.5 OF ND1002206
2	ASSEMBLY PER ND1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALING OF THE MARKING IS ALLOWED.~~
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
9	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
10	LACE HARNESS USING ITEM 30.
11	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).
12	FASTEN MARKER SECURELY WITH ITEM 30. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
13	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 2 OF 25

MIL 2064 4-63

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NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	BREAKOUTS OF INDIVIDUAL OR GROUPS OR LEADS ARE MINIMUM CONFIGURATION.
16	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
17	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
18	GRID MODULE IS 1 INCH BASIC.
19	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR BLACK, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.
20	SERIALIZE PER ND1002023.
21	MARK IDENTIFICATION BAND AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.
22	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH BLUE TRACER, WHITE WITH LETTER L R - WHITE WITH RED TRACER, WHITE WITH LETTER R W - WHITE Y - WHITE WITH YELLOW TRACER

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 3 OF 25

27

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E	SHEET 4 OF 25

MIL 2064 4-63

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LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902365-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 22AWG 92~~100~~ FEET TOTAL LENGTH
	2	1	1902365-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 20AWG 6 FEET TOTAL LENGTH
	3	1	1902365-003	WIRE ND1002181 TYPE 2, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED ~~55~~ 198 FT. TOTAL LENGTH.
	4	1	1902365-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED, WHT/YEL 23 FT. TOT. LG
	5	1	1902365-005	WIRE ND1002181 TYPE 2, CLASS 1, T2 NO 22AWG WHT. WITH LETTER L, WHT. WITH LETTER R, 4 FEET TOTAL LENGTH
	~~6~~	~~1~~	~~1902365-006~~	~~WIRE COAXIAL MIL-C-17/89A RG-188A/U 30 FEET TOTAL LENGTH.~~
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG ELEC CRIMP TYPE
	8	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG ELEC CRIMP TYPE
16	9	1	1010771-207	CONN. SOCKET ELEC CRIMP TYPE
16	10	1	1010771-201	CONN. SOCKET ELEC CRIMP TYPE
16	11	1	1010809-001	CONN. PLUG ELEC
16	12	1	1897189- 1	CONN. RECEPTACLE, ELEC.
16	13	164	1010770- 2	SOCKET CONTACT CRIMP
16	14	38	1010738- 6	SOCKET CONTACT CRIMP
	15	122	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR G	SHEET 5 OF 25

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
~~16~~	~~16~~	~~*37 1~~	~~1000243- 4~~	~~FERRULE ELEC COND~~
~~16~~	~~17~~	~~*4 1~~	~~1000242- 4~~	~~FERRULE ELEC COND~~
16	18	~~*37~~ 37	1000243- 10	FERRULE ELEC COND
16	19	~~*4~~ 40	1000242- 11	FERRULE ELEC COND
16	20	*4	1000243- 11	FERRULE ELEC COND
16	21	~~*39~~ 39	1010490-194	INSULATION SLEEVING
16	22	4	1010490-196	INSULATION SLEEVING
16	23	~~*42~~ 42	1010490-198	INSULATION SLEEVING
16	24	*3	1016006-001	SPLICE REDUCER
16	25	6	1016006-002	SPLICE REDUCER
16	26	*3	1010490-228	INSULATION SLEEVING
16	27	6	1010490-226	INSULATION SLEEVING
16	28	6	1016128-041	BAND, IDENTIFICATION
16	29	*2	1016128-011	BAND, IDENTIFICATION
17	30	AR	1012507-004	TAPE, LACING AND TYING
	~~31~~	~~1~~	~~1902365-007~~	~~WIRE ND1002181 TYPE 1 CLASS 4 WHT JKT, NO 22AWG 4 FEET TOTAL LENGTH~~
	32	1	1902365-008	TUBING, MIL-I-7444, TYPE III, BLK, FLEX 1.00 DIA. 1 FEET TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR F G	SHEET 6 OF ~~25~~

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			1.75 1.75	1.50 1.50			1 2	A 21, 19, 20 A 22	
A	1A	1	SHLD A1 E2				.37 NO .37 NO				
A	1L		P4-E P1-2				.22 NO .15 NO			15 13	
A	1R		P4-D P1-3				.22 NO .15 NO			15 13	
A	1Y		P4-F P1-1				.22 NO .15 NO			15 13	
A	2	4			1.75 1.75	1.50 1.50			1 2	A 21, 19, 20 A 22	
A	2A	1	SHLD A2 E2				.37 NO .37 NO				
A	2L		P4-H P1-5				.22 NO .15 NO			15 13	
A	2R		P4-G P1-6				.22 NO .15 NO			15 13	
A	2Y		P4-J P1-7				.22 NO .15 NO			15 13	
A	3	3			1.75 1.75	1.50 1.50			1 2	A 21, 18, 19 A 23	
A	3A	1	SHLD A3 E2				.37 NO .37 NO				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 7 OF ~~25~~

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3L		P4-L P1-10				.22 NO .15 NO			15 13	
A	3R		P4-K P1-9				.22 NO .15 NO			15 13	
A	4	3			1.75 1.75	1.50 1.50			1 2	A 21, 18, 19 A 23	
A	4A	1	SHLD A4 E2				.37 NO .37 NO				
A	4L		P4-N P1-13				.22 NO .15 NO			15 13	
A	4R		P4-M P1-12				.22 NO .15 NO			15 13	
A	5	3			2.25 2.25	2.00 2.00			3 2	A 21, 18, 19 A 23	
A	5A	1	SHLD A5 P4-M*				.37 NO .22 NO			 15	
A	5L		P4-R P1-19				.22 NO .15 NO			15 13	
A	5R		P4-P P1-18				.22 NO .15 NO			15 13	
A	6	3			2.25 2.25	2.00 2.00			1 2	A 21, 18, 19 A 23	
A	6A	1	SHLD A6 E2				.37 NO .37 NO				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 8 OF ~~25~~

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P4-T P1-22				.22 NO .15 NO			15 13	
A	6R		P4-S P1-21				.22 NO .15 NO			15 13	
A	7	3			2.25 2.25	2.00 2.00			1 2	A 21, 18, 19 A 23	
A	7A	1	SHLD A7 E2				.37 NO .37 NO				
A	7L		P4-V P1-25				.22 NO .15 NO			15 13	
A	7R		P4-U P1-24				.22 NO .15 NO			15 13	
A	8	3			2.25 2.25	2.00 2.00			1 2	A 21, 18, 19 A 23	
A	8A	1	SHLD A8 E3				.37 NO .37 NO				
A	8L		P4-X P1-28				.22 NO .15 NO			15 13	
A	8R		P4-W P1-27				.22 NO .15 NO			15 13	
A	9	3			2.75 2.75	2.50 2.50			1 2	A 21, 18, 19 A 23	
A	9A	1	SHLD A9 E3				.37 NO .37 NO				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 9 OF ~~25~~

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 9L			P4-Z P1-31					.22 .15	NO NO		15 13	
A 9R			P4-Y P1-30					.22 .15	NO NO		15 13	
~~A 10~~	~~6~~				~~2.75~~ ~~2.75~~	~~2.50~~ ~~2.50~~				~~3~~ ~~3~~	~~A 23, 14, 17~~ ~~A 23, 14, 17~~	
~~A 10A~~	~~1~~		~~SHLD A10~~ ~~P4-G*~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A 10B~~	~~1~~		~~P1-34~~ ~~SHLD A10~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 10C~~			~~P4-G*~~ ~~P1-33~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
~~A 11~~	~~X~~				~~2.75~~ ~~2.75~~	~~2.50~~ ~~2.50~~				~~3~~ ~~3~~	~~A 23, 14, 17~~ ~~A 23, 14, 17~~	
~~A 11A~~	~~1~~		~~SHLD A11~~ ~~P4-L*~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A 11B~~	~~1~~		~~P1-36~~ ~~SHLD A11~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 11C~~			~~P4-D*~~ ~~P1-38~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
A 12	3				2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A 12A	1		SHLD A12 P4-G*					.37 .22	NO NO		15	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 12L			P4-I* P1-51					.22 .15	NO NO		15 13	
A 12R			P4-H* P1-50					.22 .15	NO NO		15 13	
A 13	3				3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A 13A	1		SHLD A13 E1					.37 .37	NO NO			
A 13L			P4-KK P1-54					.22 .15	NO NO		15 13	
A 13R			P4-JJ P1-53					.22 .15	NO NO		15 13	
A 14	3				3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A 14A	1		SHLD A14 E1					.37 .37	NO NO			
A 14L			P4-MM P1-57					.22 .15	NO NO		15 13	
A 14R			P4-LL P1-56					.22 .15	NO NO		15 13	
A 15	1		E1 P4-NN					.37 .22	NO NO		15	
A 16	1		P4-Q* P1-59					.22 .15	NO NO		15 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17	3				3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A 17A	1		SHLD A17 E3					.37 .37	NO NO			
A 17L			P4-S* P6-23					.22 .10	NO NO		15 14	
A 17R			P4-R* P6-31					.22 .10	NO NO		15 14	
A 18	3				3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A 18A	1		SHLD A18 E3					.37 .37	NO NO			
A 18L			P4-U* P6-24					.22 .10	NO NO		15 14	
A 18R			P4-T* P6-32					.22 .10	NO NO		15 14	
A 19	3				3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A 19A	1		SHLD A19 E3					.37 .37	NO NO			
A 19L			P4-W* P6-7					.22 .10	NO NO		15 14	
A 19R			P4-V* P6-15					.22 .10	NO NO		15 14	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20	3				3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A 20A	1		SHLD A20 E3					.37 .37	NO NO			
A 20L			P4-BB P6-14					.22 .10	NO NO		15 14	
A 20R			P4-AA P6-6					.22 .10	NO NO		15 14	
A 21	3				3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A 21A	1		SHLD A21 E3					.37 .37	NO NO			
A 21L			P4-DD P6-13					.22 .10	NO NO		15 14	
A 21R			P4-CC P6-5					.22 .10	NO NO		15 14	
A 22	1		P4-EE P6-38					.22 .10	NO NO		15 14	
A 23	1		P4-PP P6-37					.22 .10	NO NO		15 14	
A 24	2		E2 E4					.37 .37	NO NO			
A 25	2		E3 E4					.37 .37	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	1		P1-37 E4					.15 .37	NO NO		13	
A 27	2		E4 P4-P*					.37 .22	NO NO		15	
A 28	4				1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 22	
A 28A	1		SHLD A28 E7					.37 .37	NO NO			
A 28L			P5-E P3-8					.22 .15	NO NO		15 13	
A 28R			P5-D P3-36					.22 .15	NO NO		15 13	
A 28Y			P5-F P3-19					.22 .15	NO NO		15 13	
~~A 29 C~~					~~1.75~~ ~~1.75~~	~~1.50~~ ~~1.50~~				~~3~~ ~~3~~	~~A 21, 19, 17~~ ~~A 23, 19, 17~~	
~~A 29A 1~~			~~SHLD A29~~ ~~P5-H~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A 29B 1~~			~~P3-84~~ ~~SHLD A29~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 29C~~			~~P5-G~~ ~~P3-23~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	
A 30	3				1.75 1.75	1.50 1.50				3 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E *	SHEET 14 OF ~~23~~ 27

MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30A	1		SHLD A30 P5-I*					.37 .22	NO NO		15	
A 30L			P5-K P3-79					.22 .15	NO NO		15 13	
A 30R			P5-J P3-78					.22 .15	NO NO		15 13	
A 31	3				1.75 1.75	1.50 1.50				1 2	A 21, 19, 20 A 23	
A 31A	1		SHLD A31 E7					.37 .37	NO NO			
A 31L			P5-M P3-83					.22 .15	NO NO		15 13	
A 31R			P5-L P3-82					.22 .15	NO NO		15 13	
A 32	3				2.25 2.25	2.00 2.00				1 2	A 21, 19, 20 A 23	
A 32A	1		SHLD A32 E7					.37 .37	NO NO			
A 32L			P5-P P3-7					.22 .15	NO NO		15 13	
A 32R			P5-N P3-6					.22 .15	NO NO		15 13	
A 33	3				2.25 2.25	2.00 2.00				1 2	A 21, 19, 20 A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 15 OF ~~23~~ 27

MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33A	1		SHLD A33 E7					.37 .37	NO NO			
A 33L			P5-S P3-3					.22 .15	NO NO		15 13	
A 33R			P5-R P3-2					.22 .15	NO NO		15 13	
A 34	4				2.25 2.25	2.00 2.00				1' 2	A 21, 19, 20 A 22	
A 34A	1		SHLD A34 E7					.37 .37	NO NO			
A 34L			P5-U P3-5					.22 .15	NO NO		15 13	
A 34R			P5-T P3-33					.22 .15	NO NO		15 13	
A 34Y			P5-V P3-16					.22 .15	NO NO		15 13	
~~A 35 C~~					~~2.25~~ ~~2.25~~	~~2.00~~ ~~2.00~~				~~3~~ ~~3~~	~~A 21, 19, 17~~ ~~A 23, 19, 17~~	
~~A 35A 1~~			~~SHLD A35~~ ~~P5-K~~					~~.37~~ ~~.22~~	~~NO~~ ~~NO~~		~~15~~	
~~A 35B 1~~			~~P3-35~~ ~~SHLD A35~~					~~.15~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 35C~~			~~P5-W~~ ~~P3-34~~					~~.22~~ ~~.15~~	~~NO~~ ~~NO~~		~~15~~ ~~13~~	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR E *	SHEET 16 OF ~~23~~ 27

MIL 3086 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 36	1		P5-Y P3-37					.22 .15	NO NO		15 13	
A 37	3				2.75 2.75	2.50 2.50				3 2	A 21, 19, 20 A 23	
A 37A	1		SHLD A37 P5-V*					.37 .22	NO NO		15	
A 37L			P5-C* P3-91					.22 .15	NO NO		15 13	
A 37R			P5-B* P3-90					.22 .15	NO NO		15 13	
A 38	3				2.75 2.75	2.50 2.50				1 2	A 21, 19, 20 A 23	
A 38A	1		SHLD A38 E7					.37 .37	NO NO			
A 38L			P5-E* P3-87					.22 .15	NO NO		15 13	
A 38R			P5-D* P3-86					.22 .15	NO NO		15 13	
A 39	3				2.75 2.75	2.50 2.50				1 2	A 21, 19, 20 A 23	
A 39A	1		SHLD A39 E7					.37 .37	NO NO			
A 39L			P5-H* P3-41					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE-NONE	REV LTR * E	SHEET 17 OF ~~23~~ 27

MIL 3086 4-63

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 39R			P5-G*				.22	NO		15	
			P3-40				.15	NO		13	
A 40	3				2.75 2.50				1	A 21, 19, 20	
					2.75 2.50				2	A 23	
A 40A	1		SHLD A40				.37	NO			
			E8				.37	NO			
A 40L			P5-JJ				.22	NO		15	
			E5				.37	NO			
A 40R			P5-HH				.22	NO		15	
			P3-12				.15	NO		13	
A 41	1		E5				.37	NO			
			P3-13				.15	NO		13	
A 42	1		E5				.37	NO			
			P3-14				.15	NO		13	
A 43	3				3.25 3.00				1	A 21, 19, 20	
					3.25 3.00				2	A 23	
A 43A	1		SHLD A43				.37	NO			
			E8				.37	NO			
A 43L			P5-K*				.22	NO		15	
			P3-38				.15	NO		13	
A 43R			P5-J*				.22	NO		15	
			P3-39				.15	NO		13	
A 44	3				3.25 3.00				1	A 21, 19, 20	
					3.25 3.00				2	A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 18 OF 25

MIL 2004 4-63

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CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	1		SHLD A44				.37	NO			
			E8				.37	NO			
A 44L			P5-Q*				.22	NO		15	
			P3-55				.15	NO		13	
A 44R			P5-P*				.22	NO		15	
			P3-32				.15	NO		13	
A 45	3				3.25 3.00				1	A 21, 19, 20	
					3.25 3.00				2	A 23	
A 45A	1		SHLD A45				.37	NO			
			E8				.37	NO			
A 45L			P5-S*				.22	NO		15	
			P3-70				.15	NO		13	
A 45R			P5-R*				.22	NO		15	
			P3-71				.15	NO		13	
A 46	3				3.25 3.00				1	A 21, 19, 20	
					3.25 3.00				2	A 23	
A 46A	1		SHLD A46				.37	NO			
			E8				.37	NO			
A 46L			P5-U*				.22	NO		15	
			P3-85				.15	NO		13	
A 46R			P5-T*				.22	NO		15	
			P3-84				.15	NO		13	
A 47	3				3.75 3.50				3	A 21, 19, 20	
					3.75 3.50				2	A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 19 OF 25

27

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 47A	1		SHLD A47				.37	NO			
			P5-PP				.22	NO		15	
A 47L			P5-X*				.22	NO		15	
			P3-44				.15	NO		13	
A 47R			P5-W*				.22	NO		15	
			P3-43				.15	NO		13	
A 48	3				3.75 3.50				1	A 21, 19, 20	
					3.75 3.50				2	A 23	
A 48A	1		SHLD A48				.37	NO			
			E8				.37	NO			
A 48L			P5-Z*				.22	NO		15	
			P3-77				.15	NO		13	
A 48R			P5-Y*				.22	NO		15	
			P3-76				.15	NO		13	
A 49	5										
A 49L			P5-AA				.22	NO		15	
			P3-68				.15	NO		13	
A 49R			P5-BB				.22	NO		15	
			P3-69				.15	NO		13	
A 50	1		P5-CC				.22	NO		15	
			P3-1				.15	NO		13	
A 51	2		P5-DD				.22	NO		15	
			E10				.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 20 OF 25

MIL 2004 4-63

27

CABLE W90 1902365 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 52			DELETED								
A 52A			DELETED								
A 52L			DELETED								
A 52R			DELETED								
A 53	3				3.75 3.50				1	A 21, 19, 20	
					3.75 3.50				2	A 23	
A 53A	1		SHLD A53				.37	NO			
			E8				.37	NO			
A 53L			P5-FF				.22	NO		15	
			P3-89				.15	NO		13	
A 53R			P5-EE				.22	NO		15	
			P3-88				.15	NO		13	
A 54	3				1.75 1.50				2	A 23	
					4.25 4.00				1	A 21, 19, 20	
A 54B	1		E9				.37	NO			
			SHLD A54				.37	NO			
A 54L			P6-28				.10	NO		14	
			P3-11				.15	NO		13	
A 54R			P6-27				.10	NO		14	
			P3-10				.15	NO		13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 21 OF 25

27

CABLE W90 1902365 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 55B	1		E9 SHLD A55					.37 .37	NO NO			
A 55L			P6-36 P3-18					.10 .15	NO NO		14 13	
A 55R			P6-35 P3-17					.10 .15	NO NO		14 13	
A 56	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 56B	1		E9 SHLD A56					.37 .37	NO NO			
A 56L			P6-10 ~~P3-65~~ P3-67					.10 .15 ~~.37~~	NO NO		14 13	
A 56R			P6-2 P3-64					.10 .15	NO NO		14 13	
~~A 57~~	~~1~~		~~E6~~ ~~P3-65~~					~~.37~~ ~~.15~~	~~NO~~ ~~NO~~		~~13~~	
~~A 58~~	~~1~~		~~E6~~ ~~P3-73~~					~~.37~~ ~~.15~~	~~NO~~ ~~NO~~		~~13~~	
A 59	~~3~~ 3				1.75 4.25	1.50 4.00				1 2	A 21, 19, 20 A 23	
A 59A	1		SHLD A59 E10					.37 .37 .10 .15	NO NO NO NO		14 13	
A 59L			P6-9 P3-73									

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR G | SHEET 22 OF 27

MIL 3064 4-65

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CABLE W90 1902365 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 59R			P6-1 P3-72					.10 .15	NO NO		14 13	
A 60	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 60B	1		E9 SHLD A60					.37 .37	NO NO			
A 60L			P2-02 P3-30					.15 .15	NO NO		13 13	
A 60R			P2-01 P3-27					.15 .15	NO NO		13 13	
A 61	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 61B	1		E9 SHLD A61					.37 .37	NO NO			
A 61L			P2-F1 P3-59					.15 .15	NO NO		13 13	
A 61R			P2-F2 P3-58					.15 .15	NO NO		13 13	
A 62	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 62B	1		E10 SHLD A62					.37 .37	NO NO			
A 62L			P2-E2 P5-LL					.15 .22	NO NO		13 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR G | SHEET 23 OF 27

MIL 3064 4-65

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CABLE W90 1902365 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P2-E1 P5-KK					.15 .22	NO NO		13 15	
A 63	2		E7 E10					.37 .37	NO NO			
A 64	2		E8 E10					.37 .37	NO NO			
A 65	2		E9 E10					.37 .37	NO NO			
A 66	1		E9 P3-9					.37 .15	NO NO		13	
A 67	1		P4-A P1-35					.22 .15	NO NO		15 13	
~~A 68~~	~~1~~				~~3.75~~ ~~3.75~~	~~3.50~~ ~~3.50~~				~~3~~ ~~3~~	~~A 23, 18, 19~~ ~~A 23, 18, 19~~	
~~A 68A~~	~~1~~		~~SHLD A68~~ ~~P5-NN~~					~~.37~~	~~NO~~		~~15~~	
~~A 68B~~	~~1~~		~~P3-01~~ ~~SHLD A68~~					~~.37~~	~~NO~~		~~13~~	
~~A 68C~~			~~P5-NN~~ ~~P3-01~~								~~15~~ ~~13~~	
A 69	3				2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A 69A	1		SHLD A69 P4-C					.37 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR E | SHEET 24 OF 27

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CABLE W90 1902365 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69R			P4-B P1-33					.22 .15	NO NO		15 13	
A 69L			P4-C P1-34					.22 .15	NO NO		15 13	
A 70	3				2.75 2.75	2.50 2.50				3 2	A21, 18, 19 A23,	
A 70A	1		SHLD A70 P4-E					.37 .22	NO NO			
A 70R			P4-D P1-38					.22 .15	NO NO		15 13	
A 70L			P4-E P1-39					.22 .15	NO NO		15 13	
A 71	3				1.75 1.75	1.50 1.50				3 2	A 21, 18, 19 A 23	
A 71A	1		SHLD A71 P5-H					.37 .22	NO NO			
A 71R			P5-G P3-23					.22 .15	NO NO		15 13	
A 71L			P5-H P3-24					.22 .15	NO NO		15 13	
A 72	3				2.25 2.25	2.00 2.00				3 2	A 21, 18, 19 A 23	
A 72A	1		SHLD A72 P5-X					.37 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | REVISION G | NASA DRAWING NO. 1902365 | SHEET 25 OF 27

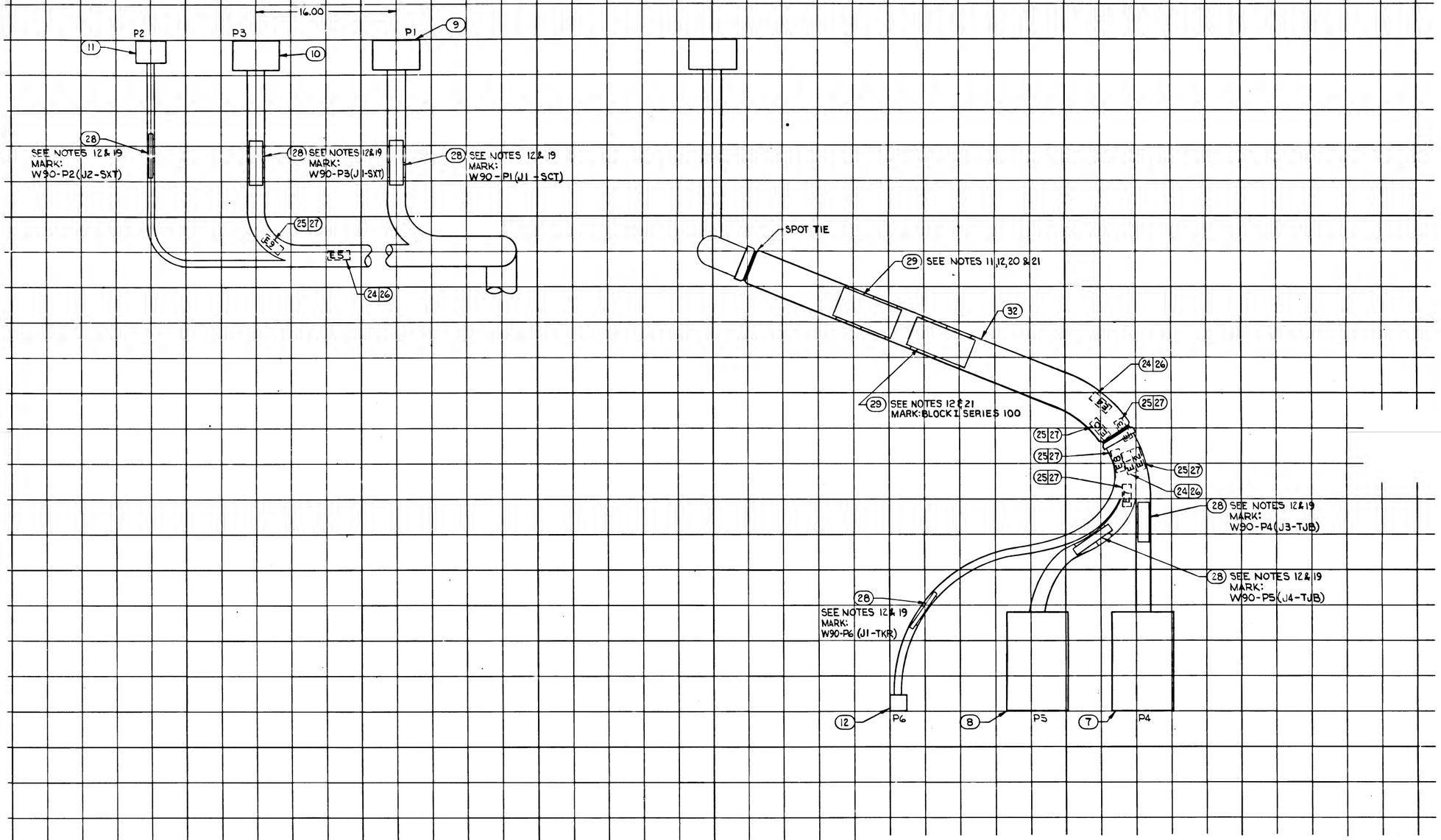
CABLE W90

1902365 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT. STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE FIG	ACCESSORY ITEMS	REMARKS
A	72R		P5-W P3-34					.22 .15	NO NO		15 13	
A	72L		P5-X P3-35					.22 .15	NO NO		15 13	
A	73	3			3.75 3.75	3.50 3.50				3 2	A21, 18, 19 A23	
A	73A	1	SHLD A73 P5-NN					.37 .22	NO NO			
A	73R		P5-MM P3-80					.22 .15	NO NO		15 13	
A	73L		P5-NN P3-81					.22 .15	NO NO		15 13	
A	74	1	P6-30 P4-FF					.10 .15	NO NO		14 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION G	NASA DRAWING NO. 1902365 SHEET 26 OF 27

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — — — — DO NOT SCALE THIS DRAWING MATERIAL ——	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN ACSP PN DRAWN B Agne DATE 5FEB65 CHECKED J Lein 5FEB65 APPROVAL R Parma 15FEB65 APPROVAL A Watson 7-2-67 NASA APPROVAL MIT APPROVAL	MANNED SPACECRAFT CENTER HOUSTON, TEXAS CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL W90
1902299-011 NEXT ASSY	1902299-011 USED ON		CONTRACT NAS9-497	CODE IDENT NO. 99974 SIZE 1902365 SCALE 1/1 SHEET 2 OF 27
APPLICATION				

1902365 G

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	E (M)	UPGRADED TO CLASS 'A' RELEASE PER TDRR 17840	24 MAR 65	CWS
		F (AV)	REVISED PER TL .0508	3 JUL 65	JJJ MEM
		G (AV)	REVISED PER TDRR 21033	29 JUL 65	RLP EF
		H	REVISED PER TDRR 22699	1 OCT 65	JJJ

Charleston 15 FEB 65

REV	H	H	A	H	H	H																
SHEET	22	23	24	25	26	27	28															
REV STATUS	REV	H		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
OF SHEETS	SHEET	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN [signature] DATE 5 FEB 65
CHECKED [signature] 15 FEB 65
APPROVAL R. Perrin 15 FEB 65
APPROVAL [signature] 7-26-65

NASA APPROVAL [signature] MAR 29 1965
MIT APPROVAL [signature]

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL W90

CODE IDENT NO.	SIZE		REV
99974	A	1902365	H

SCALE NONE

SHEET 1 OF 28

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

1. SHIELD TERMINATION---
   FIG.1 IS FIG.4 OF ND1002206
   FIG.2 IS FIG.7 OF ND1002032
   FIG.3 IS FIG.5 OF ND1002206
2. ASSEMBLY PER ND1002032
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4. MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5. DELETED
6. DELETED
7. MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8. MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.
9. A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
10. LACE HARNESS USING ITEM 30.
11. IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).
12. FASTEN MARKER SECURELY WITH ITEM 30. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.
13. A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

14. GRID IS SHOWN FOR DIMENSIONING PURPOSES.
15. BREAKOUTS OF INDIVIDUAL OR GROUPS OR LEADS ARE MINIMUM CONFIGURATION.
16. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
17. VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
18. GRID MODULE IS 1 INCH BASIC.
19. MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS COLOR BLACK, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.
20. SERIALIZE PER ND1002023.
21. MARK IDENTIFICATION BAND AS NOTED .12 INCH HIGH CHARACTERS COLOR WHITE, HOT IMPRESSION STAMP PER ND1002019, CENTRALIZE.
22. THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING.
    A - FROM END SHIELD
    B - TO END SHIELD
    E - GRAY
    L - WHITE WITH BLUE TRACER, WHITE WITH LETTER L
    R - WHITE WITH RED TRACER, WHITE WITH LETTER R
    W - WHITE
    Y - WHITE WITH YELLOW TRACER

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902365-001	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 22AWG 92 FEET TOTAL LENGTH
	2	1	1902365-002	WIRE ND1002181, TYPE 1, CLASS 1, WHT NO 20AWG 6 FEET TOTAL LENGTH
	3	1	1902365-003	WIRE ND1002181 TYPE 2, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED 798 FT. TOTAL LENGTH.
	4	1	1902365-004	WIRE ND1002181, TYPE 3, CLASS 4, WHT JKT. NO 22AWG, WHT/BLU, WHT/RED, WHT/YEL 23 FT. TOT. LG
	5	1	1902365-005	WIRE ND1002181 TYPE 2, CLASS 1, T2 NO 22AWG WHT. WITH LETTER L, WHT. WITH LETTER R, 4 FEET TOTAL LENGTH
	6			DELETED
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG ELEC CRIMP TYPE
	8	1	MS3126F24-61PZ	(1897047-616) CONNECTOR PLUG ELEC CRIMP TYPE
16	9	1	1010771-207	CONN. SOCKET ELEC CRIMP TYPE
16	10	1	1010771-201	CONN. SOCKET ELEC CRIMP TYPE
16	11	1	1010809-001	CONN. PLUG ELEC
16	12	1	1897189- 1	CONN. RECEPTACLE, ELEC.
16	13	172	1010770- 2	SOCKET CONTACT CRIMP
16	14	38	1010738- 6	SOCKET CONTACT CRIMP
	15	122	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	16		1000243- 4	DELETED
	17		1000242- 4	DELETED
16	18	37	1000243- 10	FERRULE ELEC COND
16	19	42	1000242- 11	FERRULE ELEC COND
16	20	6	1000243- 11	FERRULE ELEC COND
16	21	41	1010490-194	INSULATION SLEEVING
16	22	4	1010490-196	INSULATION SLEEVING
16	23	44	1010490-198	INSULATION SLEEVING
16	24	3	1016006-001	SPLICE REDUCER
16	25	6	1016006-002	SPLICE REDUCER
16	26	3	1010490-228	INSULATION SLEEVING
16	27	6	1010490-226	INSULATION SLEEVING
16	28	6	1016128-041	BAND, IDENTIFICATION
16	29	2	1016128-011	BAND, IDENTIFICATION
17	30	AR	1012507-004	TAPE, LACING AND TYING
	31		1902365-007	DELETED
	32	1	1902365-008	TUBING, MIL-I-7444, TYPE III, BLK, FLEX 1.00 DIA. 1 FEET TOTAL LENGTH

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	4			1.75	1.50				1	A 21, 19, 20	
					1.75	1.50				2	A 22	
A	1A	1	SHLD A1									
			E2					.37	NO			
								.37	NO			
A	1L		P4-E									
			P1-2					.22	NO		15	
								.15	NO		13	
A	1R		P4-D									
			P1-3					.22	NO		15	
								.15	NO		13	
A	1Y		P4-F									
			P1-1					.22	NO		15	
								.15	NO		13	
A	2	4			1.75	1.50				1	A 21, 19, 20	
					1.75	1.50				2	A 22	
A	2A	1	SHLD A2									
			E2					.37	NO			
								.37	NO			
A	2L		P4-H									
			P1-5					.22	NO		15	
								.15	NO		13	
A	2R		P4-G									
			P1-6					.22	NO		15	
								.15	NO		13	
A	2Y		P4-J									
			P1-7					.22	NO		15	
								.15	NO		13	
A	3	3			1.75	1.50				1	A 21, 18, 19	
					1.75	1.50				2	A 23	
A	3A	1	SHLD A3									
			E2					.37	NO			
								.37	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3L		P4-L									
			P1-10					.22	NO		15	
								.15	NO		13	
A	3R		P4-K									
			P1-9					.22	NO		15	
								.15	NO		13	
A	4	3			1.75	1.50				1	A 21, 18, 19	
					1.75	1.50				2	A 23	
A	4A	1	SHLD A4									
			E2					.37	NO			
								.37	NO			
A	4L		P4-N									
			P1-13					.22	NO		15	
								.15	NO		13	
A	4R		P4-M									
			P1-12					.22	NO		15	
								.15	NO		13	
A	5	3			2.25	2.00				3	A 21, 18, 19	
					2.25	2.00				2	A 23	
A	5A	1	SHLD A5					.37	NO			
			P4-No					.22	NO		15	
A	5L		P4-R									
			P1-19					.22	NO		15	
								.15	NO		13	
A	5R		P4-P									
			P1-18					.22	NO		15	
								.15	NO		13	
A	6	3			2.25	2.00				1	A 21, 18, 19	
					2.25	2.00				2	A 23	
A	6A	1	SHLD A6					.37	NO			
			E2					.37	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L		P4-T									
			P1-22					.22	NO		15	
								.15	NO		13	
A	6R		P4-S									
			P1-21					.22	NO		15	
								.15	NO		13	
A	7	3			2.25	2.00				1	A 21, 18, 19	
					2.25	2.00				2	A 23	
A	7A	1	SHLD A7									
			E2					.37	NO			
								.37	NO			
A	7L		P4-V									
			P1-25					.22	NO		15	
								.15	NO		13	
A	7R		P4-U									
			P1-24					.22	NO		15	
								.15	NO		13	
A	8	3			2.25	2.00				1	A 21, 18, 19	
					2.25	2.00				2	A 23	
A	8A	1	SHLD A8									
			E3					.37	NO			
								.37	NO			
A	8L		P4-X									
			P1-28					.22	NO		15	
								.15	NO		13	
A	8R		P4-W									
			P1-27					.22	NO		15	
								.15	NO		13	
A	9	3			2.75	2.50				1	A 21, 18, 19	
					2.75	2.50				2	A 23	
A	9A	1	SHLD A9									
			E3					.37	NO			
								.37	NO			

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	9L		P4-Z P1-31					.22 .15	NO NO		15 13	
A	9R		P4-Y P1-30					.22 .15	NO NO		15 13	
A	10		DELETED									
A	10A		DELETED									
A	10B		DELETED									
A	10E		DELETED									
A	11		DELETED									
A	11A		DELETED									
A	11B		DELETED									
A	11E		DELETED									
A	12	3			2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A	12A	1	SHLD A12 P4-G					.37 .22	NO NO		15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE - NONE | REV LTR H | SHEET 10 OF 28

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CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12L		P4-J P1-51					.22 .15	NO NO		15 13	
A	12R		P4-H P1-50					.22 .15	NO NO		15 13	
A	13	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	13A	1	SHLD A13 E1					.37 .37	NO NO			
A	13L		P4-KK P1-54					.22 .15	NO NO		15 13	
A	13R		P4-JJ P1-53					.22 .15	NO NO		15 13	
A	14	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	14A	1	SHLD A14 E1					.37 .37	NO NO			
A	14L		P4-MM P1-57					.22 .15	NO NO		15 13	
A	14R		P4-LL P1-56					.22 .15	NO NO		15 13	
A	15	1	E1 P4-NN					.37 .22	NO NO		15	
A	16	1	P4-Q P1-59					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE - NONE | REV LTR H | SHEET 11 OF 28

MIL 3004 4-69

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	17	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	17A	1	SHLD A17 E3					.37 .37	NO NO			
A	17L		P4-S P6-23					.22 .10	NO NO		15 14	
A	17R		P4-R P6-31					.22 .10	NO NO		15 14	
A	18	3			3.25 3.25	3.00 3.00				1 2	A 21, 18, 19 A 23	
A	18A	1	SHLD A18 E3					.37 .37	NO NO			
A	18L		P4-U P6-24					.22 .10	NO NO		15 14	
A	18R		P4-T P6-32					.22 .10	NO NO		15 14	
A	19	3			3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A	19A	1	SHLD A19 E3					.37 .37	NO NO			
A	19L		P4-W P6-7					.22 .10	NO NO		15 14	
A	19R		P4-V P6-15					.22 .10	NO NO		15 14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE - NONE | REV LTR H | SHEET 12 OF 28

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CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	20	3			3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A	20A	1	SHLD A20 E3					.37 .37	NO NO			
A	20L		P4-BB P6-14					.22 .10	NO NO		15 14	
A	20R		P4-AA P6-6					.22 .10	NO NO		15 14	
A	21	3			3.75 3.75	3.50 3.50				1 2	A 21, 18, 19 A 23	
A	21A	1	SHLD A21 E3					.37 .37	NO NO			
A	21L		P4-DD P6-13					.22 .10	NO NO		15 14	
A	21R		P4-CC P6-5					.22 .10	NO NO		15 14	
A	22	1	P4-EE P6-38					.22 .10	NO NO		15 14	
A	23	1	P4-PP P6-37					.22 .10	NO NO		15 14	
A	24	2	E2 E4					.37 .37	NO NO			
A	25	2	E3 E4					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE - NONE | REV LTR H | SHEET 13 OF 28

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CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	1		P1-37					.15	NO		13	
			E4					.37	NO			
A 27	2		E4					.37	NO			
			P4-P6					.22	NO		15	
A 28	4				1.75	1.50				1	A 21, 19, 20	
					1.75	1.50				2	A 22	
A 28A	1		SHLD A28					.37	NO			
			E7					.37	NO			
A 28L			P5-E					.22	NO		15	
			P3-8					.15	NO		13	
A 28R			P5-D					.22	NO		15	
			P3-36					.15	NO		13	
A 28Y			P5-F					.22	NO		15	
			P3-19					.15	NO		13	
A 29			DELETED									
A 29A			DELETED									
A 29B			DELETED									
A 29E			DELETED									
A 30	3				1.75	1.50				3	A 21, 19, 20	
					1.75	1.50				2	A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR H | SHEET 14 OF 28

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CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30A	1		SHLD A30					.37	NO			
			P5-I*					.22	NO		15	
A 30L			P5-K					.22	NO		15	
			P3-79					.15	NO		13	
A 30R			P5-J					.22	NO		15	
			P3-78					.15	NO		13	
A 31	3				1.75	1.50				1	A 21, 19, 20	
					1.75	1.50				2	A 23	
A 31A	1		SHLD A31					.37	NO			
			E7					.37	NO			
A 31L			P5-M					.22	NO		15	
			P3-83					.15	NO		13	
A 31R			P5-L					.22	NO		15	
			P3-82					.15	NO		13	
A 32	3				2.25	2.00				1	A 21, 19, 20	
					2.25	2.00				2	A 23	
A 32A	1		SHLD A32					.37	NO			
			E7					.37	NO			
A 32L			P5-P					.22	NO		15	
			P3-7					.15	NO		13	
A 32R			P5-N					.22	NO		15	
			P3-6					.15	NO		13	
A 33	3				2.25	2.00				1	A 21, 19, 20	
					2.25	2.00				2	A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR H | SHEET 15 OF 28

MIL 3004 4-69

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33A	1		SHLD A33					.37	NO			
			E7					.37	NO			
A 33L			P5-S					.22	NO		15	
			P3-3					.15	NO		13	
A 33R			P5-R					.22	NO		15	
			P3-2					.15	NO		13	
A 34	4				2.25	2.00				1	A 21, 19, 20	
					2.25	2.00				2	A 22	
A 34A	1		SHLD A34					.37	NO			
			E7					.37	NO			
A 34L			P5-U					.22	NO		15	
			P3-5					.15	NO		13	
A 34R			P5-T					.22	NO		15	
			P3-33					.15	NO		13	
A 34Y			P5-V					.22	NO		15	
			P3-16					.15	NO		13	
A 35			DELETED									
A 35A			DELETED									
A 35B			DELETED									
A 35E			DELETED									

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR H | SHEET 16 OF 28

MIL 3004 4-69

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 36	1		P5-Y					.22	NO		15	
			P3-37					.15	NO		13	
A 37	3				2.75	2.50				3	A 21, 19, 20	
					2.75	2.50				2	A 23	
A 37A	1		SHLD A37					.37	NO			
			P5-V*					.22	NO		15	
A 37L			P5-C*					.22	NO		15	
			P3-91					.15	NO		13	
A 37R			P5-B*					.22	NO		15	
			P3-90					.15	NO		13	
A 38	3				2.75	2.50				1	A 21, 19, 20	
					2.75	2.50				2	A 23	
A 38A	1		SHLD A38					.37	NO			
			E7					.37	NO			
A 38L			P5-E*					.22	NO		15	
			P3-87					.15	NO		13	
A 38R			P5-D*					.22	NO		15	
			P3-86					.15	NO		13	
A 39	3				2.75	2.50				1	A 21, 19, 20	
					2.75	2.50				2	A 23	
A 39A	1		SHLD A39					.37	NO			
			E7					.37	NO			
A 39L			P5-H*					.22	NO		15	
			P3-41					.15	NO		13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902365 | SCALE-NONE | REV LTR H | SHEET 17 OF 28

MIL 3004 4-69

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 39R			P5-G*					.22	NO		15	
			P3-40					.15	NO		13	
A 40	3				2.75	2.50				1	A 21, 19, 20	
					2.75	2.50				2	A 23	
A 40A	1		SHLD A40					.37	NO			
			E8					.37	NO			
A 40L			P5-JJ					.22	NO		15	
			E5					.37	NO			
A 40R			P5-HH					.22	NO		15	
			P3-12					.15	NO		13	
A 41	1		E5					.37	NO			
			P3-13					.15	NO		13	
A 42	1		E5					.37	NO			
			P3-14					.15	NO		13	
A 43	3				3.25	3.00				1	A 21, 19, 20	
					3.25	3.00				2	A 23	
A 43A	1		SHLD A43					.37	NO			
			E8					.37	NO			
A 43L			P5-K*					.22	NO		15	
			P3-38					.15	NO		13	
A 43R			P5-J*					.22	NO		15	
			P3-39					.15	NO		13	
A 44	3				3.25	3.00				1	A 21, 19, 20	
					3.25	3.00				2	A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 18 OF 28

MIL 3004 4-68

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	1		SHLD A44					.37	NO			
			E8					.37	NO			
A 44L			P5-Q*					.22	NO		15	
			P3-55					.15	NO		13	
A 44R			P5-P*					.22	NO		15	
			P3-32					.15	NO		13	
A 45	3				3.25	3.00				1	A 21, 19, 20	
					3.25	3.00				2	A 23	
A 45A	1		SHLD A45					.37	NO			
			E8					.37	NO			
A 45L			P5-S*					.22	NO		15	
			P3-70					.15	NO		13	
A 45R			P5-R*					.22	NO		15	
			P3-71					.15	NO		13	
A 46	3				3.25	3.00				1	A 21, 19, 20	
					3.25	3.00				2	A 23	
A 46A	1		SHLD A46					.37	NO			
			E8					.37	NO			
A 46L			P5-U*					.22	NO		15	
			P3-85					.15	NO		13	
A 46R			P5-T*					.22	NO		15	
			P3-84					.15	NO		13	
A 47	3				3.75	3.50				3	A 21, 19, 20	
					3.75	3.50				2	A 23	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 19 OF 28

MIL 3004 4-68

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 47A	1		SHLD A47					.37	NO			
			P5-PP					.22	NO		15	
A 47L			P5-X*					.22	NO		15	
			P3-44					.15	NO		13	
A 47R			P5-W*					.22	NO		15	
			P3-43					.15	NO		13	
A 48	3				3.75	3.50				1	A 21, 19, 20	
					3.75	3.50				2	A 23	
A 48A	1		SHLD A48					.37	NO			
			E8					.37	NO			
A 48L			P5-Z*					.22	NO		15	
			P3-77					.15	NO		13	
A 48R			P5-Y*					.22	NO		15	
			P3-76					.15	NO		13	
A 49	5											
A 49L			P5-AA					.22	NO		15	
			P3-68					.15	NO		13	
A 49R			P5-BB					.22	NO		15	
			P3-69					.15	NO		13	
A 50	1		P5-CC					.22	NO		15	
			P3-1					.15	NO		13	
A 51	2		P5-DD					.22	NO		15	
			E10					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 20 OF 28

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CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 52			DELETED									
A 52A			DELETED									
A 52L			DELETED									
A 52R			DELETED									
A 53	3				3.75	3.50				1	A 21, 19, 20	
					3.75	3.50				2	A 23	
A 53A	1		SHLD A53					.37	NO			
			E8					.37	NO			
A 53L			P5-FF					.22	NO		15	
			P3-89					.15	NO		13	
A 53R			P5-EE					.22	NO		15	
			P3-88					.15	NO		13	
A 54	3				1.75	1.50				2	A 23	
					4.25	4.00				1	A 21, 19, 20	
A 54B	1		E9					.37	NO			
			SHLD A54					.37	NO			
A 54L			P6-28					.10	NO		14	
			P3-11					.15	NO		13	
A 54R			P6-27					.10	NO		14	
			P3-10					.15	NO		13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 21 OF 28

MIL 3004 4-68

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 55B	1		E9 SHLD A55					.37 .37	NO NO			
A 55L			P6-36 P3-18					.10 .15	NO NO		14 13	
A 55R			P6-35 P3-17					.10 .15	NO NO		14 13	
A 56	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 56B	1		E9 SHLD A56					.37 .37	NO NO			
A 56L			P6-10 P3-65					.10 .15	NO NO		14 13	
A 56R			P6-2 P3-64					.10 .15	NO NO		14 13	
A 57			DELETED									
A 58			DELETED									
A 59	3				1.75 4.25	1.50 4.00				1 2	A 21, 19, 20 A 23	
A 59A	1		SHLD A59 E10					.37 .37	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 22 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 59L			P6-9 P3-73					.10 .15	NO NO		14 13	
A 59R			P6-1 P3-72					.10 .15	NO NO		14 13	
A 59N			DELETED									
A 60	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 60B	1		E9 SHLD A60					.37 .37	NO NO			
A 60L			P2-D2 P3-30					.15 .15	NO NO		13 13	
A 60R			P2-D1 P3-27					.15 .15	NO NO		13 13	
A 61	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	
A 61B	1		E9 SHLD A61					.37 .37	NO NO			
A 61L			P2-F1 P3-59					.15 .15	NO NO		13 13	
A 61R			P2-F2 P3-58					.15 .15	NO NO		13 13	
A 62	3				1.75 4.25	1.50 4.00				2 1	A 23 A 21, 19, 20	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 23 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62B	1		E10 SHLD A62					.37 .37	NO NO			
A 62L			P2-E2 P5-LL					.15 .22	NO NO		13 15	
A 62R			P2-E1 P5-KK					.15 .22	NO NO		13 15	
A 63	2		E7 E10					.37 .37	NO NO			
A 64	2		E8 E10					.37 .37	NO NO			
A 65	2		E9 E10					.37 .37	NO NO			
A 66	1		E9 P3-9					.37 .15	NO NO		13	
A 67	1		P4-A P1-35					.22 .15	NO NO		15 13	
A 68			DELETED									
A 68A			DELETED									
A 68B			DELETED									
A 68E			DELETED									

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 24 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69	3				2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A 69A	1		SHLD A69 P4-C					.37 .22	NO NO			
A 69L			P4-C P1-34					.22 .15	NO NO		15 13	
A 69R			P4-B P1-33					.22 .15	NO NO		15 13	
A 70	3				2.75 2.75	2.50 2.50				3 2	A 21, 18, 19 A 23	
A 70A	1		SHLD A70 P4-E					.37 .22	NO NO			
A 70L			P4-E P1-39					.22 .15	NO NO		15 13	
A 70R			P4-D P1-38					.22 .15	NO NO		15 13	
A 71	3				1.75 1.75	1.50 1.50				3 2	A 21, 18, 19 A 23	
A 71A	1		SHLD A71 P5-M					.37 .22	NO NO			
A 71L			P5-M P3-24					.22 .15	NO NO		15 13	
A 71R			P5-G P3-23					.22 .15	NO NO		15 13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 25 OF 28

CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 72	3				2.25	2.00				3	A 21, 18, 19	
					2.25	2.00				2	A 23	
A 72A	1		SHLD A72					.37	NO			
			P5-X					.22	NO			
A 72L			P5-X					.22	NO		15	
			P3-35					.15	NO		13	
A 72R			P5-W					.22	NO		15	
			P3-34					.15	NO		13	
A 73	3				3.75	3.50				3	A 21, 18, 19	
					3.75	3.50				2	A 23	
A 73A	1		SHLD A73					.37	NO			
			P5-NN					.22	NO			
A 73L			P5-NN					.22	NO		15	
			P3-81					.15	NO		13	
A 73R			P5-MM					.22	NO		15	
			P3-80					.15	NO		13	
A 74	1		P6-30					.10	NO		14	
			P4-FF					.15	NO		15	
A 75	3				4.25	4.00				1	21, 19, 20	
					4.25	4.00				2	23	
A 75A	1		SHLD A75					.37	NO			
			E9					.37	NO			
A 75L			P3-51					.15	NO		13	
			P1-42					.15	NO		13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 26 OF 28

MIL 3004 4-68

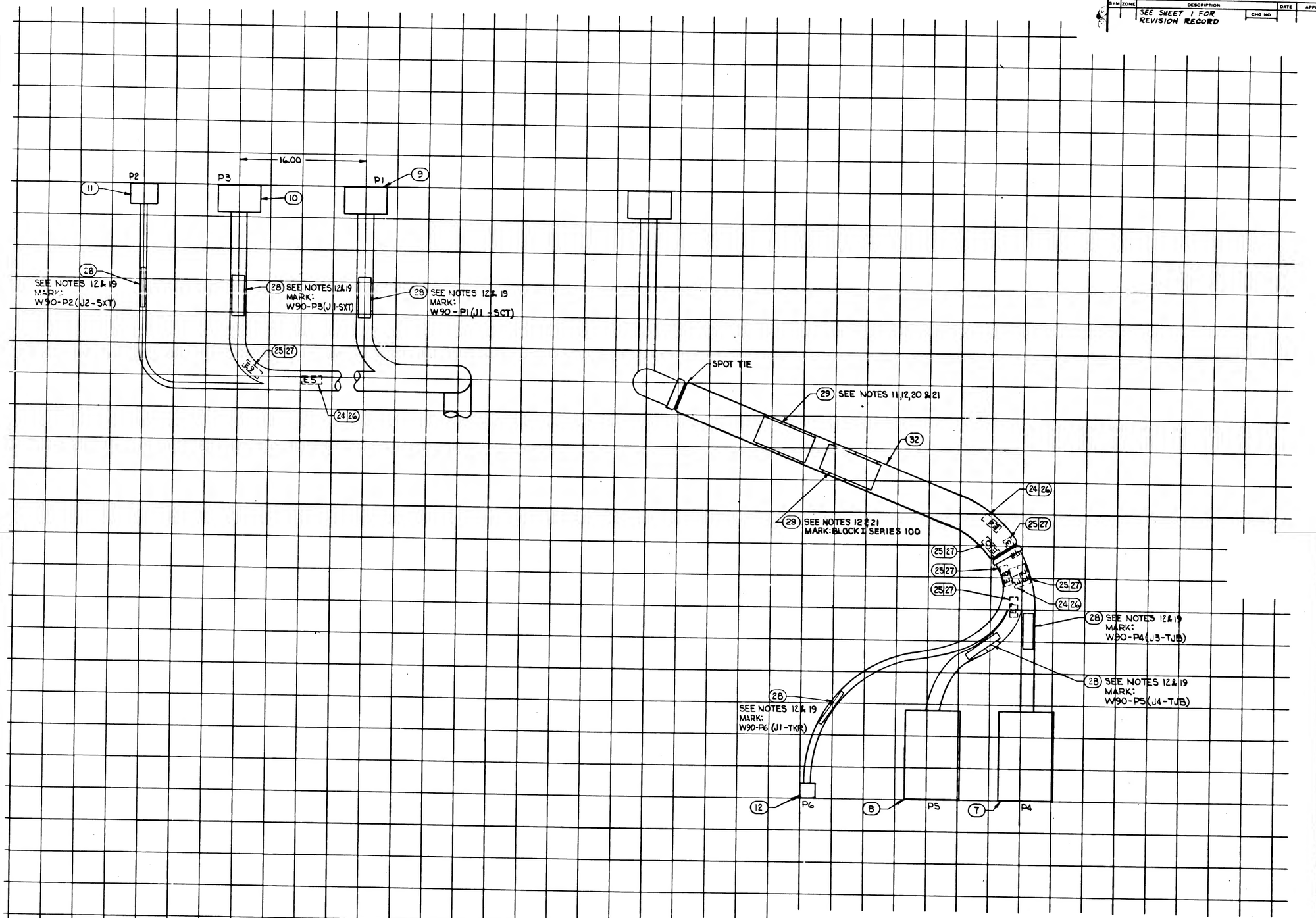
CABLE ASSEMBLY W90 1902365 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 75R			P3-52					.15	NO		13	
			P1-41					.15	NO		13	
A 76	3				4.25	4.00				1	21, 19, 20	
					4.25	4.00				2	23	
A 76A	1		SHLD A76					.37	NO			
			E9					.37	NO			
A 76L			P3-54					.15	NO		13	
			P1-45					.15	NO		13	
A 76R			P3-53					.15	NO		13	
			P1-44					.15	NO		13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902365
SCALE - NONE	REV LTR H	SHEET 27 OF 28

MIL 3004 4-68

REVISIONS				
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	AC SPARK PLUG DIVISION GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
		DO NOT SCALE THIS DRAWING	ACSP PN	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL W90
1902299-011 NEXT ASSY	1902299-011 USED ON	MATERIAL	DRAWN A Agne DATE 8FEB65	
APPLICATION		CONTRACT NAS 9-497	CHECKED J Lane 15FEB65	
			APPROVAL R Ramirez 15 Feb 65	
			APPROVAL	
			NASA APPROVAL	CODE IDENT NO. 99974 SIZE 1902365
			MIT APPROVAL	SCALE 1/1 SHEET 2 OF 2 SH

1902365

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	B	UPGRADED FOR CLASS A' RELEASE PER TDR 17840	19 MAR 65	[illegible]

Charleston 11 FEB 65

| | | |

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	DOES NOT APPLY
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
4	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
5	SPIRALLING OF THE MARKING IS ALLOWED.
6	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE.
7	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
8	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
9	MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
10	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 6 AND 7, OR 14.
11	SECURE TO CABLE USING ITEM 8, MARKING TO READ AWAY FROM CONNECTOR.
12	SEAL ZIPPER TUBING PER ND1002153
13	SERIALIZE PER ND1002023
14	ITEM 12 FURNISHED WITH ITEM 5

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 13 FURNISHED WITH ITEM 5
16	ASSEMBLE CONTACTS TO ALL CONNECTOR GROMMET HOLES.
17	SEE NOTES 7 AND 16
18	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

SBE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902366-001	WIRE, ND1002181 TYPE 1, CLASS 1, 12AWG, WHT, 96 FEET 0 INCHES TOTAL LENGTH.
	2	1	1902366-002	WIRE, ND1002181 TYPE 1, CLASS 1, 14AWG, WHT, 32 FEET 0 INCHES TOTAL LENGTH
	3	1	1902366-003	WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHT, 48 FEET 0 INCHES TORAL LENGTH.
	4	1	MS3106R-36-9PW	(1897126-091) CONNECTOR, PLUG, ELEC.
17	5	1	1016181-002	CONNECTOR, PLUG, ELEC
	6	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	7	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	8	AR	MIL-T-713	LACING TAPE, TYPE P CLASS 2, BLACK (ES2732 NO. 18)
	9	1	1902366-004	ZIPPER TUBING, ND1002155 TYPE 1 PLASTIC, FLEXIBLE, .75 DIA X 16 FT 0 IN. TOTAL LENGTH
7	10	1	1016128-011	IDENTIFICATION BAND
7	11	3	1016128-041	IDENTIFICATION BAND
14	12	4		CONNECTOR CONTACTS, SOCKET NO. 16
15	13	10		CONNECTOR CONTACTS, SOCKET NO. 12
	14	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	15	9	1010490-224	INSULATION-SLEEVING, ELECTRICAL
7	16	2	1015902- 3	TERMINAL LUG

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	17	4	1015902- 12	TERMINAL LUG
	18	1	1900997-005	ZIPPER TUBING ND1002155 TYPE 1 PLASTIC, FLEXIBLE .50 DIA 12 INCHES TOTAL LENGTH
7	19	9	1016006-003	SPLICE REDUCER

CABLE 1902366 B

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	3		P1-D					.25	YES			
				E9					.37	NO			
A	2	1		P1-I					.37	YES			
				E7					.37	NO			
A	3	1		P1-J					.37	YES			
				P2-C					.25	NO		13	
A	4	2		P1-K					.37	YES			
				E8					.37	NO			
A	5	2		P1-M					.37	YES			
				E6					.37	NO			
A	6	1		P1-S					.37	YES			
				E1					.25	NO			
A	7	1		P1-T					.37	YES			
				E2					.25	NO			
A	8	3		P1-E					.25	YES			
				E5					.25	NO			
A	9	1		P1-U					.37	YES			
				E3					.25	NO			
A	10	1		P1-V					.37	YES			
				E4					.25	NO			
A	11	3		P3-12					.32	NO		16	
				P2-L					.25	NO		12	
A	12	1		E1					.25	NO			
				P2-D					.25	NO		13	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902366
SCALE - NONE	REV LTR KB	SHEET 6 OF 9

MIL 2084 4-63

CABLE 1902366 B

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1		E1					.25	NO			
				P3-11					.32	NO		17	
A	14	1		E2					.25	NO			
				P2-E					.25	NO		13	
A	15	1		E2					.25	NO			
				P3-7					.32	NO		17	
A	16	1		E3					.25	NO			
				P2-G					.25	NO		13	
A	17	1		E3					.25	NO			
				P3-8					.32	NO		17	
A	18	1		E4					.25	NO			
				P2-J					.25	NO		13	
A	19	1		E4					.25	NO			
				P3-9					.32	NO		17	
A	20	3		E5					.25	NO			
				P2-F					.25	NO		13	
A	21	3		E5					.25	NO			
				P3-10					.32	NO		16	
A	22	2		P1-F*					.37	YES			
				E6					.37	NO			
A	23	3		P1-C					.37	YES			
				E7					.37	NO			
A	24	2		P1-G					.37	YES			
				E8					.37	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902366
SCALE - NONE	REV LTR KB	SHEET 7 OF 9

MIL 2084 4-63

CABLE 1902366 B

LEAD IDENT		WIRE MAIL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	3		P1-A					.25	YES			
				E9					.37	NO			
A	26	2		E6					.37	NO			
				P2-A					.25	NO		13	
A	27	1		E7					.37	NO			
				P2-B					.25	NO		13	
A	28	2		E8					.37	NO			
				P2-H					.25	NO		13	
A	29	3		E9					.37	NO			
				P2-M					.25	NO		12	

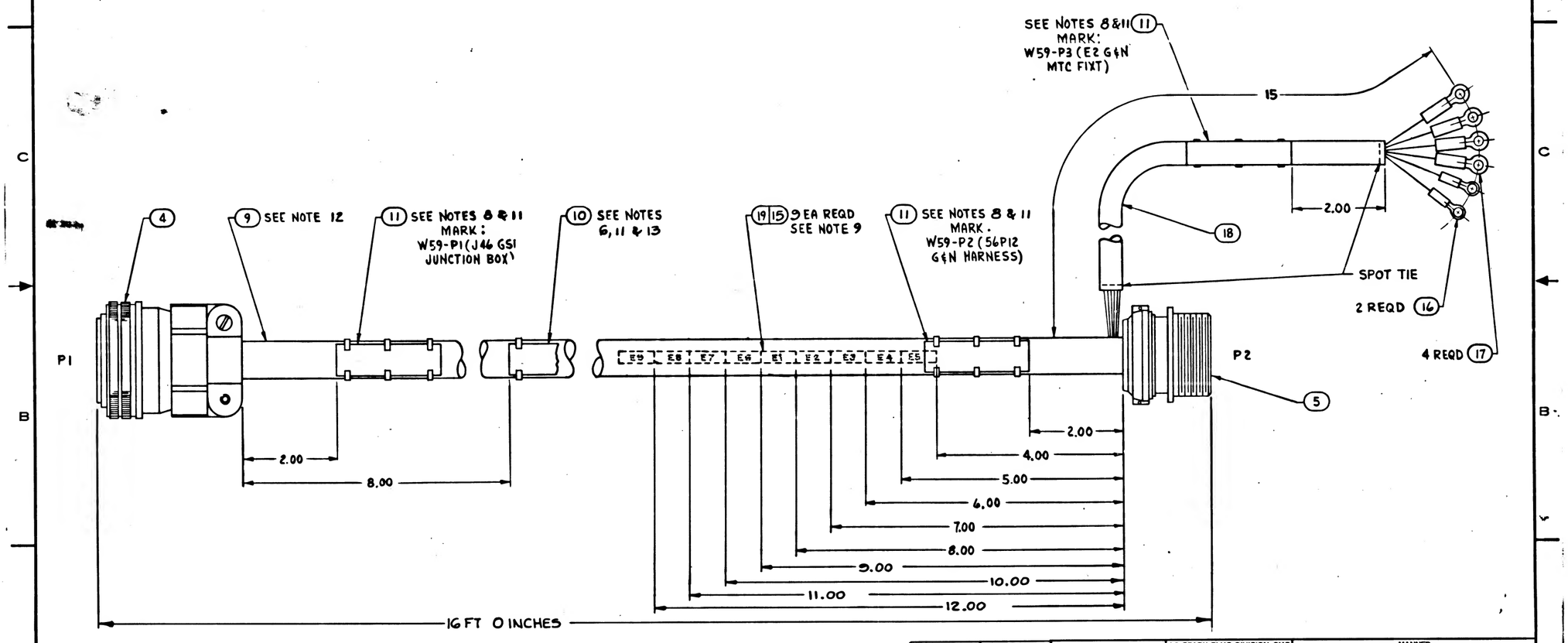
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902366
SCALE - NONE	REV LTR KB	SHEET 8 OF 9

MIL 2084 4-63

1902366 B

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

17840



LOCATION TOLERANCE (EXCEPT LENGTH) ±.50

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
			ACSP PN		
			DRAWN DATE 3 FEB 65	CABLE INTERCONNECT W59 G&N TESTING	
			CHECKED Ed Foster 9 Feb 65		
			APVRDVAL R. Perini 11 FEB 65		
			APPROVAL W. Wilson 2-5-65		
		MATERIAL	MAP 1965	CODE IDENT NO.	SIZE D 1902366
1902299-011 NEXT ASSY	1902299-011 USED ON		NASA APPROVAL R.C. Mead 1965		
APPLICATION		CONTRACT NAS 9-497	MIT APPROVAL W. Wilson	SCALE ~	SHEET 9 OF 9

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
4. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND 1002019, .09 HIGH, COLOR WHITE.
5. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY." WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES-267).
6. MARK APPLICABLE CONTRACT NO. AND SERIAL NO. TO ITEM (98) IN ACCORDANCE WITH ND 1002023. LETTERS AND NUMERALS TO BE .12 HIGH.
7. SOLDER PER MIL-S-6872 (ES 2505-1) USING ITEMS (111) AND (112), OR (113).
8. APPLY ITEM (114) TO ALL MALE TAPERED PIPE THREADS.
9. REMOVE #10-32 SCREWS HOLDING RUBBER FEET TO VACUUM PUMP AS SUPPLIED. INSTALL SCREWS AND FLAT WASHERS, ITEMS (74) AND (120) THROUGH THE MOUNTING CHANNEL, RUBBER FEET, VACUUM PUMP BASE, AND INTO THE HEX NUT, ITEM (78).
10. FINISH: CHEMICAL FILM IN ACCORDANCE WITH MIL-STD-808 PER FINISH CODE F101 USING ITEM (124).
11. APPLY ITEM (131) TO THREADS IN ACCORDANCE WITH ND 1002211.
12. ALL TUBING WHICH CARRIES WASTE FLUID, GAS OR VACUUM ONLY SHALL BE ITEM (83). TUBING WHICH CARRIES WATER OR WATER/GLYCOL TO THE FRONT PANEL SHALL BE ITEM (130).
13. TUBING SHOWN ON SHEETS 3 AND 4 REPRESENTS APPROXIMATE POSITION IN CABINET.
14. FLARE TUBE ENDS PER MS 33584 WHERE FLARE FITTINGS ARE REQUIRED.
15. INSPECT PER PS 1900803, TYPE II.

SYM	ZONE	REVISIONS 17850 DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS A PER TDRR 17850		23 JAN 65	JNP

						AR		131	MIL-S-22473B GRADE-E COMPOUND, SEALING & RETAINING		
						AR		130	MIL-T-8506	TUBING (304), ANL TYPE I (3/8 OD x .028 WALL)	
						1		129	AN917-2C (1896896-302)	TEE, INTERNAL PIPE THD.	
SEE NOTE 3						2		128	1016019-004	COUPLING HALF (FEMALE), QUICK DISC.	
						~~4~~		~~127~~	~~AN315C10 (1897146-110)~~	~~NUT, PLAIN, HEX.~~	
SEE NOTE 3						2		126	1016238-003	COUPLING HALF, QUICK DISCONNECT	
						4		125	AN773-6	FITTING, ASSEMBLY	
						AR		124	MIL-P-26519 TYPE I, CLASS "A"	PRIMER	
						28		123	AN960C416L (1897006-043)	WASHER, FLAT	
						1		122	1901702	HOLDER, PORTABLE WASTE TANK	
						1		121	1901686	TANK, WASTE, PORTABLE	
						8		120	AN960C10 (1897006-017)	WASHER, FLAT	
						3		119	AN312-1C (1896835-301)	BUSHING, REDUCER	
						2		118	MS21919DG6X (1897073-110)	CLAMP, LOOP TYPE	
						3		117	MS21919DG6 (1897073-106)	CLAMP, LOOP TYPE	
						1		116	1901684	PLUG, PIPE	
SEE NOTE 8						2		115	AN894C6-4 (1896897-305)	BUSHING SCREW THD. EXPANDER	
SEE NOTE 7						AR		114	MIL-T-27730 SIZE I	TAPE, ANTISEIZE, TETRAFLUOROETHYLENE	
						AR		113	SN60WRAP	SOLDER QQ-S-571 (ES-2175-3)	
SEE NOTE 2						AR		112	SN60WS	SOLDER QQ-S-571 (ES-2175-1)	
						AR		111	MIL-F-14256 TYPE A OR W FLUX (ES-2798)		
						5		110	1015902-003	TERMINAL, LUG	
						5		109	MS21919WDG-6 (1897073-206)	CLAMP, LOOP-TYPE	
						4		108	MS21919WDG-5 (1897073-205)		
						5		107	MS21919WDG-4 (1897073-204)		
						3		106	MS21919WDG-3 (1897073-203)		
SEE NOTE 2						2		105	MS21919WDG-2 (1897073-202)	CLAMP, LOOP-TYPE	
						1		104	1016002-45	CIRCUIT BREAKER	
						1		103	1901585	ADAPTER, STRAIGHT TUBE TO BOSS	
						1		102	MS29513-213	O-RING	
						1		101	MS20826-6K (1896894-606)	TEE-FLARED TUBE & P. THD.	
						4		100	MS35338-79	WASHER, LOCK, SPLIT	
SEE NOTE 6						4		99	MS35233-2	SCREWS, MACHINE, PAN HEAD	
						1		98	1901304-240	NAMEPLATE	
SEE NOTE 2 & TABLE I						38		97	MS20365-1032A (1897069-001)	NUT, SELF LOCKING	
SEE NOTE 2 & TABLE I						3		96	1015902-8	TERMINAL - LUG	
						1		95	1015971-015	CABLE ASSY, POWER, ELECTRIC	
						2		94	1901507-001	STEEL CHANNEL, MOUNTING	
						2		93	1901507-004	STEEL CHANNEL, MOUNTING	
						6		92	AN773-4	FITTING ASSEMBLY	
						1		91	1902405-002	TUBING, POLYURETHANE	
						2		90	1902405-001	TUBING, POLYURETHANE	
						4		89	MS20822-6	ELBOW-FLARED TUBE & 90° PIPE THD.	
						3		88	MS20822-6K (1896851-508)	ELBOW-FLARED TUBE & 90° P. THD.	
						~~X~~		~~87~~		~~TUBING DIAGRAM~~	
						X		86	1901578	SCHEMATIC DIAGRAM, ELEC.	
						X		85	1901596	RUNNING LIST	
						1		84	1901586	WIRING HARNESS "A"	
						AR		83	WW-T-799A TYPE K	TUBING, COPPER - 3/8	
						AR		82	1016230-002	TUBING, POLYURETHANE (5 FT.)	
SEE NOTE 2						1		81	1017424-46	PIN, DOWEL	
						3		80	AN507C420-12 (1897003-128)	SCREW, FLAT HEAD-100°	
						35		79	MS21045-C4 (1897082-114)	NUT, SELF LOCKING, HEX.	
						50		78	MS21045-C3 (1897082-113)		
						12		77	MS21045-C06 (1897082-106)		
						16		76	MS21045-C04 (1897082-104)	NUT, SELF LOCKING, HEX.	
						8		75	MS35217-65	SCREW, PAN HEAD	
						4		74	MS35217-60		
						47		73	MS35217-56		
						33		72	MS35217-55		
						4		71	MS35216-26		
						4		70	MS35216-24		
						16		69	MS35216-15	SCREW, PAN HEAD	
						35		68	MS16996-22	SCREW, CAP - HEX. SOCKET	
						1		67	AN507C420-8 (1897003-126)	SCREW, FLAT HEAD-100°	
						2		66	AN924-6	NUT-FLARED TUBE, BULKHEAD	
						2		65	AN924-6C (1896893-306)	NUT-FLARED TUBE, BULKHEAD	
						1		64	MS20822-6-2K (1896851-507)	ELBOW-FLARED TUBE & 90° P. THD.	
						1		63	AN917-2	TEE-INTERNAL THREAD	
						1		62	AN916-2	ELBOW-90° INTERNAL THREAD	
						2		61	AN912-1	BUSHING-REDUCER	
						6		60	AN816-6C (1896850-008)	NIPPLE-FLARED TUBE & PIPE THD.	
						2		59	AN833-6C (1896892-206)	ELBOW-FLARED TUBE & 90° BLKHD.	
						1		58	AN832-6	UNION-FLARED TUBE	
						1		57	AN815-6-2C (1896850-007)	NIPPLE-FLARED TUBE & P. THD.	
						1		56	AN826-6	TEE-FLARED TUBE WITH PIPE THD.	
						3		55	AN824-6	TEE-FLARED TUBE	
						22		54	AN817-6	NUT, SLEEVE, COUPLING	
						11		53	AN817-6C (1896891-206)	NUT-SLEEVE COUPLING	
						4		52	AN816-6	NIPPLE-FLARED TUBE & PIPE THD.	
						1		51	AN807-6	ADAPTER-HOSE TO UNIVERSAL	
						1		50	1902132	HANDLE, VALVE	
						1		49	1902131	PLATE, DOWEL RETAINING	
						1		48	1902130	CAM, CONTROL	
						2		47	AN960-C916 (1897006-292)	WASHER, FLAT	
SEE NOTE 2						5		46	1016007-004	HOLDER, COMPONENT	
SEE NOTE 2						2		45	1016007-003	HOLDER, COMPONENT	
						3		44	MS21919WDG-8 (1897073-208)	CLAMP, LOOP-TYPE	
SEE NOTE 2						3		43	1015918-110	TERMINAL-BLOCK	
						2		42	1897099-029	FUSE, CARTRIDGE	
						1		41	MS26572-1	FUSEHOLDER	
						1		40	1015873-001	FUSEHOLDER	
						1		39	1015983-001	RELAY - ARMATURE	
SEE NOTE 2						1		38	1015954	TRANSFORMER	
						1		37	1015869-170	LIGHT, INDICATOR ASSEMBLY	
						1		36	1015869-169	LIGHT, INDICATOR ASSEMBLY	
						1		35	1015863-168	LIGHT, INDICATOR ASSEMBLY	
						2		34	MS25307-231	SWITCH, TOGGLE	
						1		33	1016002-53	CIRCUIT BREAKER	
						1		32	1016291-001	SWITCH, FLOAT	
						1		31	1016373-001	FILTER, EXHAUST	
						2		30	1016142-002	FILTER, IN-LINE	
SEE NOTE 2						1		29	1016289-002	VALVE - 5 WAY (LESS HANDLE)	
						1		28	1016148-005	VALVE FLOW CONTROL	
						3		27	1016286-101	VALVE - BALL, MINIATURE	
						2		26	1016286-001	VALVE - BALL, MINIATURE	
						1		25	1016136-003	GAUGE, PRESSURE 0 TO 100 PSIG	
						1		24	1016136-002	GAUGE, PRESSURE 0 TO 60 PSIG	
SEE TABLE I						1		23	1016288-001	GAUGE, VACUUM	
SEE NOTE 3						1		22	1901534	PUMP, ROTARY, POWER DRIVEN	
SEE NOTE 2						1		21	1902117-001	PUMP, ROTARY, POWER DRIVEN	
						1		20	1016274-005	FLOW METER	
						1		19	1901503	INDICATOR, SIGHT, LIQUID	
						2		18	1901510	REEL CORE, TUBING ASSY.	
						4		17	1901509	REEL END, TUBING ASSY.	
						1		16	1901512	BRACKET, ANGLE-ELECTRONIC	
						1		15	1901506	PLATE, MOUNTING PUMP	
SEE NOTE 3						1		14	1901501	RESERVOIR, 5 GALLON	
						1		13	1901402	TANK, WASTE	
						1		12	1901401	TANK, WATER	
						1		11	1901507-003	STEEL CHANNEL, MOUNTING	
						1		10	1901511-2	BRACKET, ANGLE-VACUUM PUMP	
						1		9	1901511-1	BRACKET, ANGLE-VACUUM PUMP	
						1		8	1901507-002	STEEL CHANNEL, MOUNTING	
						1		7	1901505-2	BRACKET, ANGLE-TANK & PUMP	
						1		6	1901505-1	BRACKET, ANGLE-TANK & PUMP	
						1		5	1901504-2	BRACKET, ANGLE-WASTE TANK	
						1		4	1901504-1	BRACKET, ANGLE-WASTE TANK	
						1		3	1901513	PANEL, REAR	
						1		2	1902372	PANEL, FRONT	
SEE NOTE 3						1		1	1901925	CABINET ASSEMBLY	
QUANTITY REQUIRED						QTY	EFFEC TIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	

LIST OF PARTS AND MATERIALS

TABLE I

ITEM NO.	CONDUCTOR COLOR	TO CIRCUIT POINT	STRIP JACKET	CUT WIRE	STRIP WIRE	CRIMP ITEM NO.	
95 (REF)	BLACK	TB3-7	6.00 ± .06	—	.20 +.03 −.00	96 REF	
	WHITE	TB3-4	6.00 ± .06	1.50 ± .06	.20 +.03 −.00	96 REF	
	GREEN	TB3-2	6.00 ± .06	3.00 ± .06	.20 +.03 −.00	96 REF	
22 (REF)	BLACK	XF1-2	6.00 ± .06	.50 ± .06	.20 +.03 −.00	TIN	SEE NOTE 7
	WHITE	TB1-5	6.00 ± .06	3.00 ± .06	.20 +.03 −.00	110 REF	
	GREEN	TB1-9	6.00 ± .06	1.50 ± .06	.20 +.03 −.00	110 REF	
23 (REF)	BLACK	TB1-1	45.00 ± .06	42.00 ± .06	.20 +.03 −.00	110 REF	
	WHITE	TB1-6	45.00 ± .06	40.00 ± .06	.20 +.03 −.00	110 REF	
	GREEN	TB1-10	45.00 ± .06	38.00 ± .06	.20 +.03 −.00	110 REF	

C	C	C	C
SHEET 1	SHEET 2	SHEET 3	SHEET 4

REVISION STATUS OF SHEETS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON: FRACTIONS ±, DECIMALS ±, ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Zimmer 1 FEB 65
CHECKED A. Wenzel 1 MAR 65
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

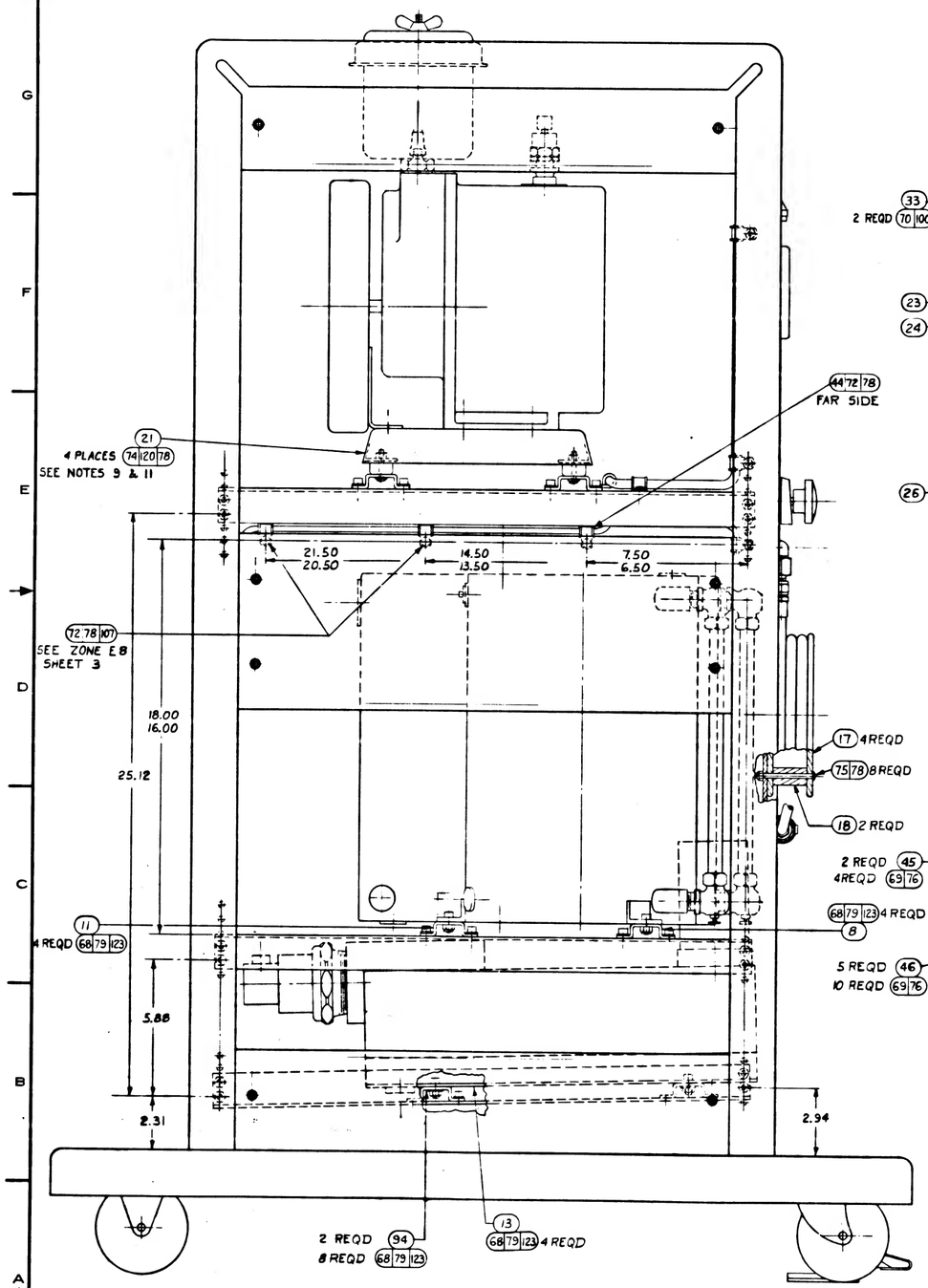
MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

FIXTURE - PURGE / FILL

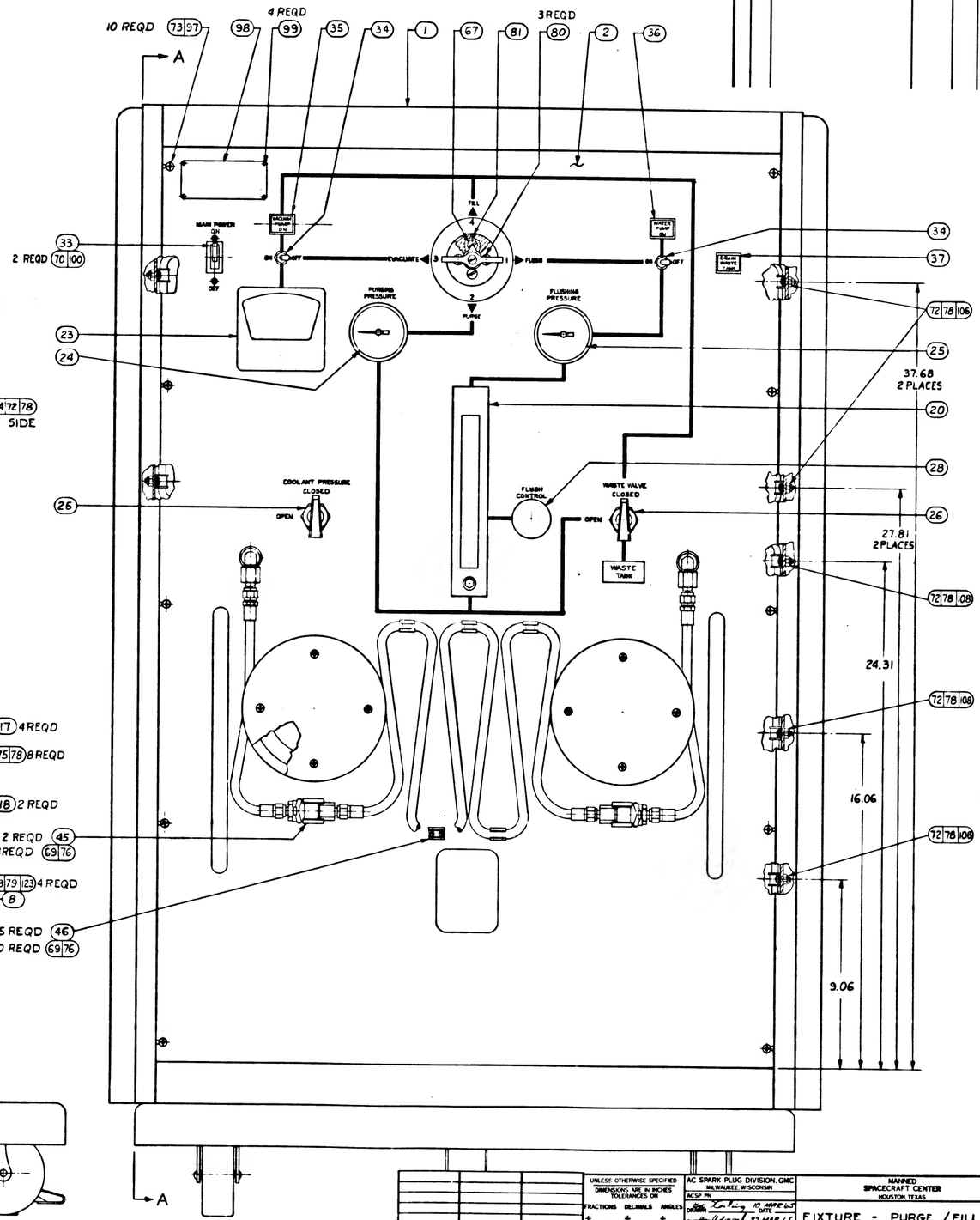
CODE IDENT NO | SIZE E | 1902371 | SCALE — | SHEET 1 OF 4

1902371

REVISIONS					17850
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS "A" PER TDRR 17850		23 MAR 65	



SECTION A-A
(SHEET 2 ZONE A4)



NEXT ASSY	USED ON	-011 APPLICABLE DASH NO.	
APPLICATION			
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 10 APR 65
CHECKED 22 MAR 65
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FIXTURE - PURGE / FILL

CODE IDENT NO | SIZE E | 1902371
SCALE 1:2 | SHEET 2 OF 4

1902371 C

REVISIONS				17850
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS 'A' PER TDRR 17850		25 MAR 69	JKP

(72|120) 4 REQD
.219
.227 THRU
SEE NOTE 10

10.000
4.00
6.00
4.000

PARTIAL VIEW C - C
SHEET 3 ZONE C-1

B
SHEET 3 ZONE B-3

(31)
(72|78|117)
(21)
(72|78|117|118) 2 REQD IN LINE
(116)
(12) 4 (68|79) REQD.
(107|72|78) 3 REQD
(14) (68|79) 3 REQD
(22) (72|78) 4 REQD
(32)
(6) (73|97) 4 REQD
(7) 4 (73|97) REQD
(95|96) TABLE I
(3) (73|97) 4 REQD
(44|72|78)
(4) (73|97) 4 REQD
(5) 4 REQD (73|97)
(43) 2 REQD (69|76)
(15) 4 REQD (73|78)
(105|72|78)

VIEW WITH DOOR OPENED 90°

(44|72|78)
(72|108|78)
(29)
(49)
(48)
(50)
(19)
(84)
(72|78|109) 2 REQD
(72|78|108)
(72|78|108)
(73|78)
(93) (68|79|123) 4 REQD
4 REQD (77)
(39)
(38) 4 REQD (77)
(43) 2 REQD (71|77)
(93) (68|79|123) 4 REQD
(16) 4 REQD (73|78)
(9) (73|97) 4 REQD
(41|42)
(40|42)
(43) (71|77) 2 REQD
(10) 4 REQD (73|97)
(104) (70|100) 2 REQD
(122)
(121)

C
C
SHEET 3 ZONE F-3

SECTION VIEW B - B
SHEET 3 ZONE F-8

NEXT ASSY	USED ON	APPLICABLE DASH NO.	-011
APPLICATION			

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + − + − + − DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. Zaloudek 3 MAR 65 DATE

CHECKED Wesley A. 22 MAR 65

APPROVAL [illegible] 27 MAR 65

APPROVAL L. Johnson 26 MAR 65

NASA APPROVAL [illegible] MAR 31 1965 DATE

MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

FIXTURE - PURGE / FILL

CODE IDENT NO

SIZE E

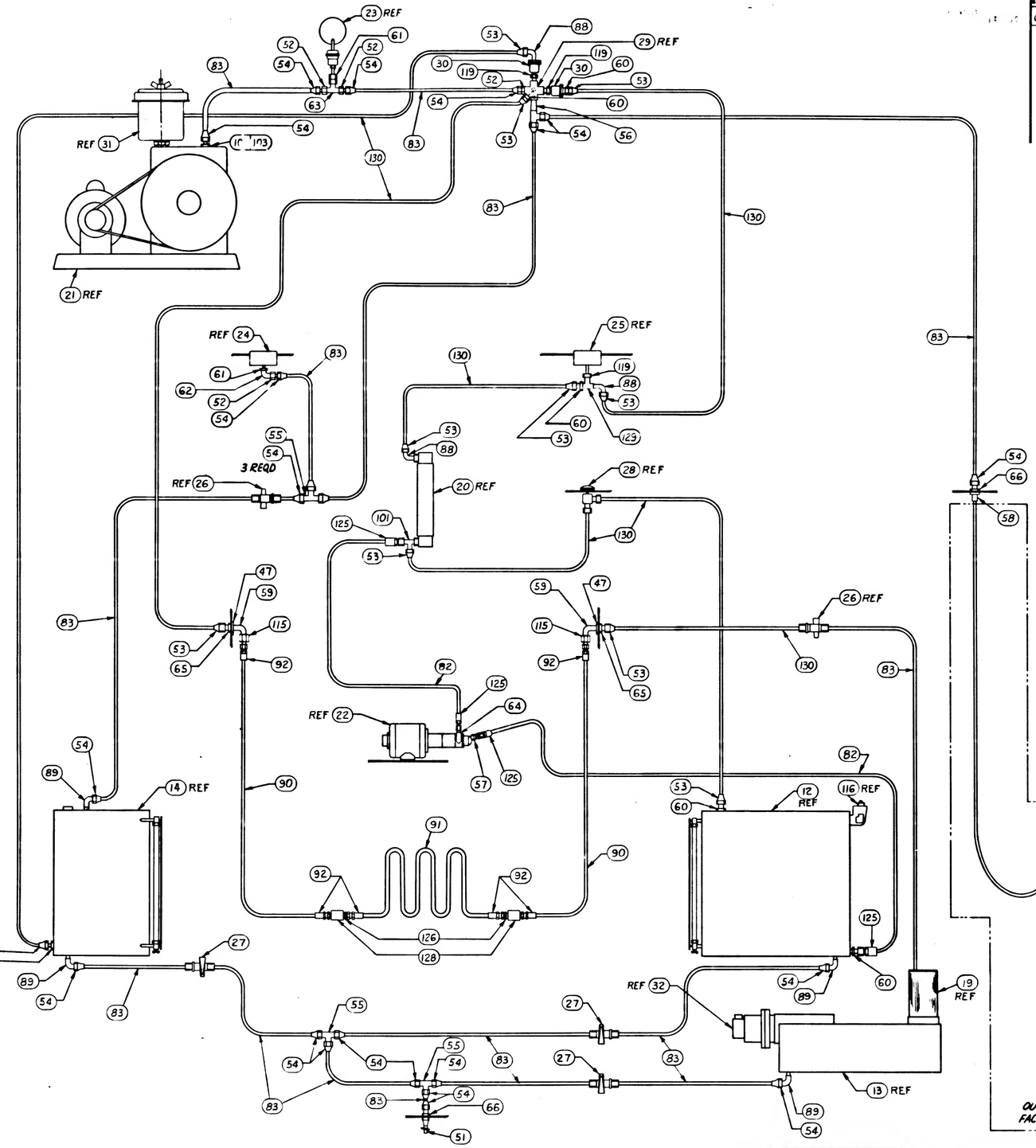
1902371

SCALE 1 : 2

SHEET 3 OF 4

1902371

REVISIONS					17850
SYM	ZONE	DESCRIPTION		DATE	APPD
C		UPGRADED TO CLASS A PER TDRR 17850	CHG NO	2-3 MAR 65	J.W.D.



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
		FRACTIONS DECIMALS ANGLES	ACSP PN		
		+ — + — + —	DR/ANN DATE		
		— — — — — —	CHK Sutherland 12 MAR 65	FIXTURE - PURGE / FILL TUBING DIAGRAM	
		DO NOT SCALE THIS DRAWING	APPROVAL R.L. Hoy 12 MAR 65		
		MATERIAL —	APPROVAL L. Johnson 12 MAR 65	CODE IDENT NO.	SIZE E 1902371
1902269-011	1902269-011		RASA APPROVAL		
NEXT ASSY	USED ON		WIT APPROVAL	SCALE —	SHEET 1 OF 4
APPLICATION		CONTRACT NAS-9-497	2		1

1902371 C

NOTES.
1. INTEPPPET DPAWING IN ACCORDANCE WITH STANDARDS PRESCMBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
4. MARK SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND 1002013, .03 HIGH, COLOR WHITE.
5. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY." WTH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES-267).
6. MARK APPLICABLE CONTRACT NO. AND SERIAL NO. TO ITEM (98) IN ACCORDANCE WITH ND 1002023. LETTEPS AND NUMERALS TO BE .12 HIGH.
7. SOLDER PER MIL-S-6872 (ES 2505-1) USING ITEMS (111) AND (112), OR (13)
8. APPLY ITEM (114) TO ALL MALE TAPERED PIPE THREADS.
9. REMOVE #10-32 SCREWS HOLDING RUBBER FEET TO VACUUM PUMP AS SUPPLIED. INSTALL SCREWS AND FLAT WASHERS, ITEMS (74) AND (120) THROUGH THE MOUNTING CHANNEL, RUBBER FEET, VACUUM PUMP BASE, AND INTO THE HEX NUT, ITEM (78).
10. FINISH: CHEMICAL FILM IN ACCORDANCE WITH MIL-STD-808 PER FINISH CODE FI01 USING ITEM (124).
11. APPLY ITEM (131) TO THREADS IN ACCORDANCE WITH ND 1002211.
12. ALL TUBING WHICH CARRIES WASTE FLUID, GAS OR VACUUM ONLY SHALL BE ITEM (83) TUBING WHICH CARRIES WATER OR WATER / GLYCOL TO THE FRONT PANEL SHALL BE ITEM (130).
13. TUBING SHOWN ON SHEETS 3 AND 4 REPRESENTS APPROXIMATE POSITION IN CABINET.
14. FLARE TUBE ENDS PER MS 33584 WHERE FLARE FITTINGS ARE REQUIRED.
15. INSPECT PER PS 1900803, TYPE II.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
C		UPGRADED TO CLASS A PER TDRR 17830		12-28-64	
D		REVISED PER TDRR 24572		5 DEC 65	

QUANTITY REQUIRED	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
		132	1897310-005	NUT, TUBE COUPLING
AR		131	MIL-S-22473B GRADE-E	COMPOUND, SEALING & RETAINING
AR		130	MIL-T-8506	TUBING (304), ANL TYPE I, 3/8 O.D., .028 WALL
1		129	AN917-2C (1896B96-302)	TEE, INTERNAL PIPE THD.
2		128	1016019-004	COUPLING HALF (FEMALE), QUICK DISC.
~~4~~		~~127~~	~~AN925C10 (1897146-10)~~	~~NUT, PLAIN, HEX~~
2		126	1016238-003	COUPLING HALF, QUICK DISCONNECT
4		125	AN773-6	FITTING, ASSEMBLY
AR		124	MIL-P-26519 TYPE I, CLASS A	PRIMER
28		123	AN960C416L (1897006-043)	WASHER, FLAT
1		122	1901702	HOLDER, PORTABLE WASTE TANK
1		121	1901686	TANK, WASTE, PORTABLE
8		120	AN960C10 (1897006-017)	WASHER, FLAT
3		119	AN912-1C (1896895-301)	BUSHING, REDUCER
2		118	MS21919DG10 (1897073-110)	CLAMP, LOOP TYPE
3		117	MS2191 DG6 (1897073-106)	CLAMP, LOOP TYPE
1		116	1901684	PLUG, PIPE
2		115	1897311-001	REDUCER, 37° TUBE
AR		114	MIL-T-27730 SIZE I	TAPE, ANTISEIZE, TETRAFLUORDETHYLENE
AR		113	SN60WRAP	SOLDER QQ-S-571 (ES-2175-3)
AR		112	SN60WS	SOLDER QQ-S-571 (ES-2175-1)
AR		111	MIL-F-14256 TYPE A OR W	FLUX (ES-2798)
5		110	1015902-003	TERMINAL, LUG
5		109	MS21919WDG-6 (1897073-206)	CLAMP, LOOP-TYPE
4		108	MS21919WDG-5 (1897073-205)	
5		107	MS21919WDG-4 (1897073-204)	
3		106	MS21919WDG-3 (1897073-203)	
2		105	MS21919WDG-2 (1897073-202)	CLAMP, LOOP-TYPE
1		104	1016002-45	CIRCUIT BREAKER
1		103	1901585	ADAPTER, STRAIGHT TUBE TO BOSS
1		102	MS29513-213	O-RING
1		101	MS20826-6K (1896894-606)	TEE-FLARED TUBE & P. THD.
4		100	MS35338-79	WASHER, LOCK, SPLIT
4		99	MS35233-2	SCREWS, MACHINE, PAN HEAD
1		98	1901304-240	NAMEPLATE
38		97	MS20365-1032A (1897069-001)	NUT, SELF LOCKING
3		96	1015902-8	TERMINAL - LUG
1		95	1015971-015	CABLE ASSY, POWER, ELECTRIC
2		94	1901507-001	STEEL CHANNEL, MOUNTING
2		93	1901507-004	STEEL CHANNEL, MOUNTING
6		92	AN773-4	FITTING, ASSEMBLY
1		91	1902405-002	TUBING, POLYURETHANE
2		90	1902405-001	TUBING, POLYURETHANE
4		89	MS20822-6	ELBOW-FLARED TUBE & 90° PIPE THD.
3		88	MS20822-6K (1896351-508)	ELBOW-FLARED TUBE & 90° P. THD.
		~~87~~		~~TUBING DIAGRAM~~
		86	1901578	SCHEMATIC DIAGRAM, ELEC.
		85	1901596	RUNNING LIST
1		84	1901586	WIRING HARNESS "A"
AR		83	WW-T-799A TYPE K	TUBING, COPPER - 3/8
AR		82	1016230-002	TUBING, POLYURETHANE (5 FT.)
1		81	1017424-46	PIN, DOWEL
3		80	AN507C420-12 (1897003-12R)	SCREW, FLAT HEAD-100°
35		79	MS21045-C4 (1897082-114)	NUT, SELF LOCKING, HEX.
50		78	MS21045-C3 (1897082-113)	
12		77	MS21045-C06 (1897082-106)	
16		76	MS21045-C04 (1897082-104)	NUT, SELF LOCKING, HEX.
8		75	MS35217-65	SCREW, PAN HEAD
4		74	MS35217-60	
47		73	MS35217-56	
33		72	MS35217-55	
4		71	MS35216-26	
4		70	MS35216-24	
16		69	MS35216-15	SCREW, PAN HEAD
35		68	MS16996-22	SCREW, CAP - HEX. SOCKET
1		67	AN507C420-8 (1897003-12G)	SCREW, FLAT HEAD-100°
2		66	AN924-6	NUT-FLARED TUBE, BULKHEAD
2		65	AN924-6C (1896893-306)	NUT-FLARED TUBE, BULKHEAD
1		64	MS20822-6-2K (1896851-507)	ELBOW-FLARED TUBE & 90° P. THD.
1		63	AN917-2	TEE-INTERNAL THREAD
1		62	AN916-2	ELBOW-90° INTERNAL THREAD
2		61	AN912-1	BUSHING-REDUCER
6		60	AN816-6C (1896850-008)	NIPPLE-FLARED TUBE & PIPE THD.
2		59	AN833-6C (1896892-206)	ELBOW-FLARED TUBE & 90° BLKHD.
1		58	AN832-6	UNION-FLARED TUBE
1		57	AN815-6-2C (1896850-007)	NIPPLE-FLARED TUBE & P. THD.
1		56	AN826-6	TEE-FLARED TUBE WITH PIPE THD.
3		55	AN824-6	TEE-FLARED TUBE
22		54	AN817-6	NUT, SLEEVE, COUPLING
		53	AN817-6C (1896891-206)	NUT-SLEEVE COUPLING
4		52	AN816-6	NIPPLE-FLARED TUBE & PIPE THD.
1		51	AN807-6	ADAPTER-HOSE TO UNIVERSAL
1		50	1902132	HANDLE, VALVE
1		49	1902131	PLATE, DOWEL RETAINING
1		48	1902130	CAM, CONTROL
2		47	AN960-C916 (1897006-092)	WASHER FLAT
5		46	1016007-004	HOLDER, COMPONENT
2		45	1016007-003	HOLDER, COMPONENT
3		44	MS21919WDG-8 (1897073-208)	CLAMP, LOOP-TYPE
3		43	1015918-110	TERMINAL-BLOCK
2		42	1897099-029	FUSE, CARTRIDGE
1		41	MS26572-1	FUSEHOLDER
1		40	1015873-001	FUSEHOLDER
1		39	1015983-001	RELAY - ARMATURE
1		38	1015954	TRANSFORMER
1		37	1015869-170	LIGHT, INDICATOR ASSEMBLY
1		36	1015869-169	LIGHT, INDICATOR ASSEMBLY
1		35	1015869-168	LIGHT, INDICATOR ASSEMBLY
2		34	MS25307-231	SWITCH, TOGGLE
1		33	1016002-53	CIRCUIT BREAKER
1		32	1016291-001	SWITCH, FLOAT
1		31	1016373-001	FILTER, EXHAUST
2		30	1016142-002	FILTER, IN-LINE
1		29	1016289-002	VALVE - 5 WAY (LESS HANDLE)
1		28	1016148-005	VALVE, FLOW CONTROL
3		27	1016286-101	VALVE - BALL, MINIATURE
2		26	1016286-001	VALVE - BALL, MINIATURE
1		25	1016136-003	GAUGE, PRESSURE, 0 TO 100 PSIG
1		24	1016136-002	GAUGE, PRESSURE, 0 TO 60 PSIG
1		23	1016288-001	GAUGE, VACUUM
1		22	1901534	PUMP, ROTARY, POWER DRIVEN
1		21	1902117-001	PUMP, ROTARY, POWER DRIVEN
1		20	1016274-005	FLOW METER
1		19	1901503	INDICATOR, SIGHT, LIQUID
2		18	1901510	REEL CORE, TUBING ASSY.
4		17	1901509	REEL END, TUBING ASSY.
1		16	1901512	BRACKET, ANGLE-ELECTRONIC
1		15	1901506	PLATE, MOUNTING PUMP
1		14	1901501	RESERVOIR, 5 GALLON
1		13	1901402	TANK, WASTE
1		12	1901401	TANK, WATER
1		11	1901507-003	STEEL CHANNEL, MOUNTING
1		10	1901511-2	BRACKET, ANGLE-VACUUM PUMP
1		9	1901511-1	BRACKET, ANGLE-VACUUM PUMP
1		8	1901507-002	STEEL CHANNEL, MOUNTING
1		7	1901505-2	BRACKET, ANGLE-TANK & PUMP
1		6	1901505-1	BRACKET, ANGLE-TANK & PUMP
1		5	1901504-2	BRACKET, ANGLE-WASTE TANK
1		4	1901504-1	BRACKET, ANGLE-WASTE TANK
1		3	1901513	PANEL, REAR
1		2	1902372	PANEL, FRONT
1		1	1901925	CABINET ASSEMBLY
QUANTITY REQUIRED	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

SEE NOTE 2 — 132
SEE NOTE 3 — 128
SEE NOTE 3 — 126
SEE NOTE 2 — 115
SEE NOTE 8 — 114
SEE NOTE 7 — 113, 112
SEE NOTE 2 — 111
SEE NOTE 2 — 104
SEE NOTE 6 — 98
SEE NOTE 2 & TABLE I — 96
SEE NOTE 2 & TABLE I — 95
SEE NOTE 2 — 81
SEE NOTE 7 — TABLE I
SEE NOTE 2 — 53, 46, 43
SEE NOTE 2 — 40, 39, 38, 37, 36, 35
SEE NOTE 2 — 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23
SEE TABLE I — 22
SEE NOTE 3 — 21
SEE NOTE 2 — 20
SEE NOTE 3 — 14
SEE NOTE 3 — 1

TABLE I

ITEM NO.	CONDUCTOR COLOR	TO CIRCUIT POINT	STRIP JACKET	CUT WIRE	STRIP WIRE	CRIMP ITEM NO.
95 (REF)	BLACK	TB3-7	6.00±.06	—	20 +.03 -.00	96 REF
	WHITE	TB3-4	6.00±.06	1.50±.06	.20 +.03 -.00	96 REF
	GREEN	TB3-2	6.00±.06	3.00±.06	.20 +.03 -.00	96 REF
22 (REF)	BLACK	XF1-2	6.00±.06	.50±.06	.20 +.03 -.00	TIN
	WHITE	TB1-5	6.00±.06	3.00±.06	.20 +.03 -.00	110 REF
	GREEN	TB1-9	6.00±.06	1.50±.06	.20 +.03 -.00	110 REF
23 (REF)	BLACK	TB1-1	45.00±.06	42.00±.06	.20 +.03 -.00	110 REF
	WHITE	TB1-6	45.00±.06	40.00±.06	.20 +.03 -.00	110 REF
	GREEN	TB1-10	45.00±.06	38.00±.06	.20 +.03 -.00	110 REF

NEXT ASSY	USED ON	APPLICABLE DASH NO.

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — — — — —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-697

AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN

ACSP PN

DRAWN E. Lance DATE 3 FEB 65

CHECKED W. Ulrich 1 MAR 65

APPROVAL E. Hunter 4/Mar/65

APPROVAL J. Coleman 3 Mar 65

NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

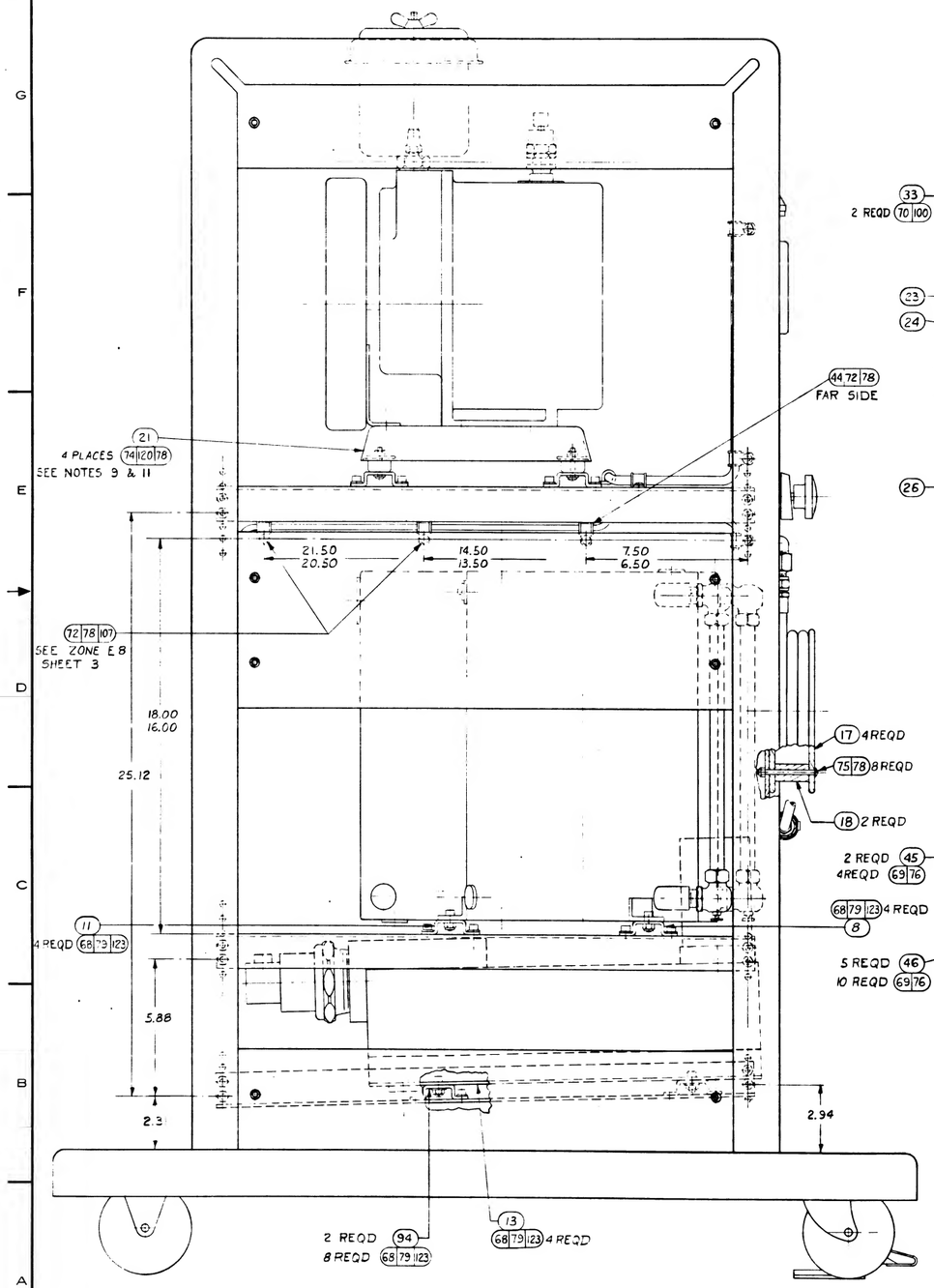
FIXTURE - PURGE / FILL

CODE IDENT NO — SIZE E — 1902371

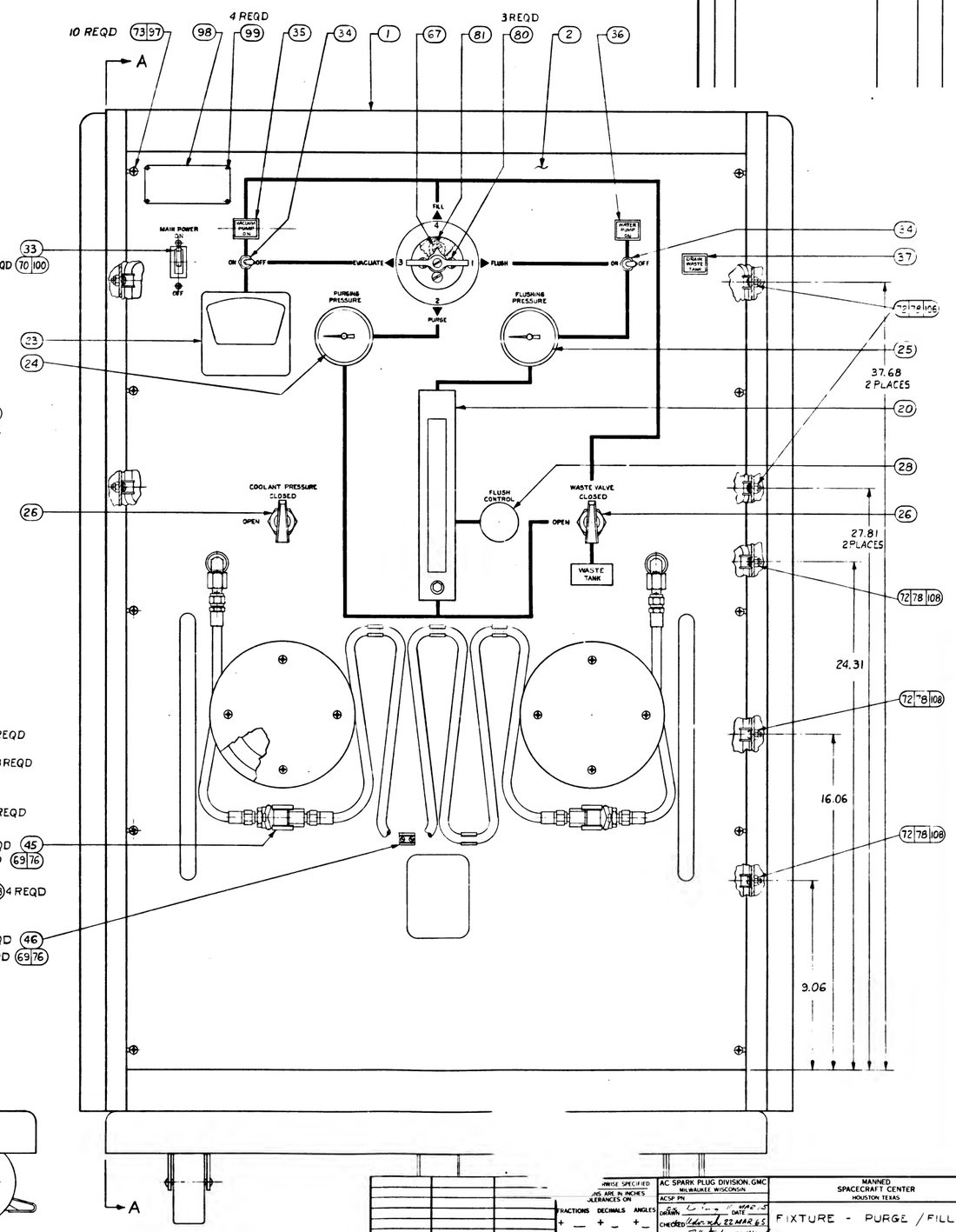
SCALE — SHEET 1 OF 2

1902371 D

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS 'A' PER TDRR 17850		23 MAR 65	
D		REVISION STATUS CHANGED		15 DEC 65	



SECTION A-A
(SHEET 2 ZONE A4)



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±		AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		ACSP PN	
		DRAWN — DATE	FIXTURE - PURGE / FILL
		CHECKED Weber 22 MAR 65	
		APPROVAL	
		APPROVAL	
NEXT ASSY — USED ON — APPLICABLE DASH NO. .011		DO NOT SCALE THIS DRAWING	CODE IDENT NO — SIZE E — 1902371
APPLICATION		MATERIAL —	NASA APPROVAL
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES		CONTRACT NAS 9-697	MIT APPROVAL — SCALE 1:2 — SHEET 1 OF 2

1902371

REVISIONS 17850					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS A PER TDRR 17850		23 MAR 65	
D		REVISION STATUS CHANGED		15 DEC 65	

(72|120) 4 REQD
219
227 THRU
SEE NOTE 10

10.000
4.00
6.00
4.000

PARTIAL VIEW C - C
SHEET 3 ZONE C-1

B
SHEET 3 ZONE B-3

(31)
(72|78|117)
(21)
(72|78|117|118) 2 REQD IN LINE
(116)
(12) 4 (68|79) REQD.
(107|72|78) 3 REQD
(14) (68|79) 3 REQD
(22) (72|78) 4 REQD
(32)
(6) (73|97) 4 REQD
(3) (73|97) 4 REQD
(7) 4 (73|97) REQD
(95|96) TABLE I
(44|72|78)
(4) (73|97) 4 REQD
(5) 4 REQD (73|97)
(43) 2 REQD (63|76)
(15) 4 REQD (73|78)
(105|72|78)

VIEW WITH DOOR OPENED 90°

(72|108|78)
(29)
(49)
(48)
(50)
(19)
(84)
(72|78|109) 2 REQD
(72|78|106)
(72|78|108)
(73|78)
(93) (68|79|123) 4 REQD
4 REQD (77) (39)
(38) 4 REQD (77)
(43) 2 REQD (71|77)
(93) (68|79|123) 4 REQD
(16) 4 REQD (73|78)
(9) (73|97) 4 REQD
(10) 4 REQD (73|97)
(41|42)
(40|42)
(43) (71|77) 2 REQD
(104) (70|100) 2 REQD
(122)
(121)

SECTION VIEW B - B
SHEET 3 ZONE F-8

SHEET 3 ZONE F-3

NEXT ASSY	USED ON	-011
APPLICATION		APPLICABLE DASH NO.

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — — — —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. Zaloudek DATE 2 MAR 65
CHECKED 22 MAR 65
APPROVAL 22 MAR 65
APPROVAL 24 MAR 65
NASA APPROVAL
MIT APPROVAL

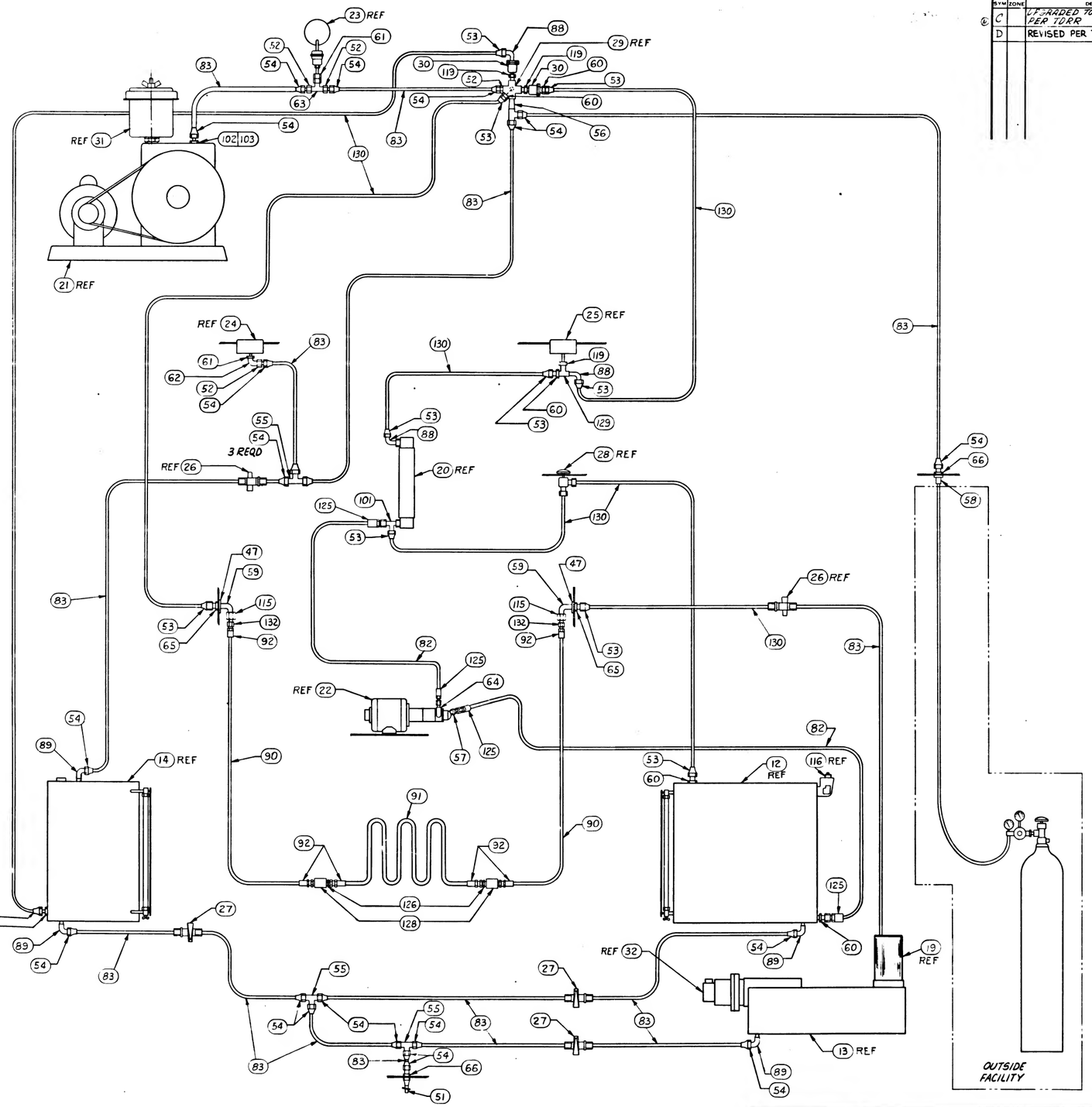
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FIXTURE - PURGE / FILL

CODE IDENT NO | SIZE E | 1902371
SCALE 1 : 2 | SHEET 3 OF 4

1902371

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
C		UPGRADED TO CLASS "A" PER TDRR 17850		MAR 65	
D		REVISED PER TDRR 24572		15 DEC 65	



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — — — — — — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
			ACSP PN	
			DRAWN DATE	FIXTURE - PURGE / FILL TUBING DIAGRAM
			CHECKED 22 MAR 65	
			APPROVAL	
			APPROVAL	
1902369-011	1902369-011	MATERIAL	NASA APPROVAL	CODE IDENT NO. SIZE E 1902371
NEXT ASSY	USED ON		MIT APPROVAL	SCALE — SHEET 4 OF 4
APPLICATION		CONTRACT NAS 9-497		

1902371

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
4. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND 1002019, .09 HIGH, COLOR WHITE.
5. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY." WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES-267).
6. MARK APPLICABLE CONTRACT NO. AND SERIAL NO. TO ITEM (98) IN ACCORDANCE WITH ND 1002023. LETTERS AND NUMERALS TO BE .12 HIGH.
7. SOLDER PER MIL-S-6872 (ES 2505-1) USING ITEMS (111) AND (112), OR (113).
8. APPLY ITEM (114) TO ALL MALE TAPERED PIPE THREADS.
9. REMOVE #10-32 SCREWS HOLDING RUBBER FEET TO VACUUM PUMP AS SUPPLIED. INSTALL SCREWS AND FLAT WASHERS, ITEMS (74) AND (120) THROUGH THE MOUNTING CHANNEL, RUBBER FEET, VACUUM PUMP BASE, AND INTO THE HEX NUT, ITEM (78).
10. FINISH: CHEMICAL FILM IN ACCORDANCE WITH MIL-STD-808 PER FINISH CODE F101 USING ITEM (124).
11. APPLY ITEM (131) TO THREADS IN ACCORDANCE WITH ND 1002211.
12. ALL TUBING WHICH CARRIES WASTE FLUID, GAS OR VACUUM ONLY SHALL BE ITEM (83). TUBING WHICH CARRIES WATER OR WATER/GLYCOL TO THE FRONT PANEL SHALL BE ITEM (130).
13. TUBING SHOWN ON SHEETS 3 AND 4 REPRESENTS APPROXIMATE POSITION IN CABINET.
14. FLARE TUBE ENDS PER MS 33584 WHERE FLARE FITTINGS ARE REQUIRED.
15. INSPECT PER PS 1900803, TYPE II.

SYM	ZONE	REVISIONS	CHG NO.	DATE	APPD
C		UPGRADED TO CLASS 'H' PER TDRR 17850		23 MAR 65	JWB
D		REVISED PER TDRR 24572		15 DEC 65	JWB
E		REVISED PER TDRR 28904		23 MAR 66	JWB

SEE NOTE 2		2		132	1897310-005	NUT, TUBE COUPLING		
		AR		131	MIL-S-22473B GRADE-E	COMPOUND, SEALING & RETAINING		
		AR		130	MIL-T-8506	TUBING (304), ANL TYPE I (3/8 OD, .028 WALL)		
		1		129	AN917-2C (1896896-302)	TEE, INTERNAL PIPE THD.		
SEE NOTE 3		2		128	1016019-004	COUPLING HALF (FEMALE) QUICK DISC.		
		~~4~~		~~127~~	~~AN815-10 (1897046-110)~~	~~NUT, PLAIN, HEX.~~		
SEE NOTE 3		2		126	1016238-003	COUPLING HALF, QUICK DISCONNECT		
		4		125	AN773-6	FITTING, ASSEMBLY		
		AR		124	MIL-P-26519 TYPE I, CLASS A	PRIMER		
		28		123	AN960C416L (1897006-043)	WASHER, FLAT		
		1		122	1901702	HOLDER, PORTABLE WASTE TANK		
		1		121	1901686	TANK, WASTE, PORTABLE		
		8		120	AN960C10 (1897006-017)	WASHER, FLAT		
		3		119	AN912-1C (1896895-301)	BUSHING, REDUCER		
		2		118	MS21919DG10 (1897073-110)	CLAMP, LOOP TYPE		
		3		117	MS21919DG6 (1897073-106)	CLAMP, LOOP TYPE		
		1		116	1901684	PLUG, PIPE		
SEE NOTE 2		2		115	1897311-001	REDUCER, 37° TUBE		
SEE NOTE 8		AR		114	MIL-T-27730 SIZE I	TAPE, ANTISEIZE, TETRAFLUOROETHYLENE		
SEE NOTE 7		AR		113	SN60 WRAP	SOLDER QQ-S-571 (ES-2175-3)		
		AR		112	SN60 WS	SOLDER QQ-S-571 (ES-2175-1)		
SEE NOTE 2		AR		111	MIL-F-14256 TYPE A OR W	FLUX (ES-2798)		
		5		110	1015902-003	TERMINAL, LUG		
		5		109	MS21919WDG-6 (1897073-206)	CLAMP, LOOP-TYPE		
		4		108	MS21919WDG-5 (1897073-205)			
		5		107	MS21919WDG-4 (1897073-204)			
		3		106	MS21919WDG-3 (1897073-203)			
		2		105	MS21919WDG-2 (1897073-202)	CLAMP, LOOP-TYPE		
SEE NOTE 2		1		104	1016002-45	CIRCUIT BREAKER		
		1		103	1901585	ADAPTER, STRAIGHT TUBE TO BOSS		
		1		102	MS29513-213	O-RING		
		1		101	MS20826-6K (1896894-606)	TEE-FLARED TUBE & P. THD.		
		4		100	MS35338-79	WASHER, LOCK, SPLIT		
		4		99	MS35233-2	SCREWS, MACHINE, PAN HEAD		
SEE NOTE 6		1		98	1901304-240	NAMEPLATE		
		38		97	MS20365-1032A (1897069-001)	NUT, SELF LOCKING		
SEE NOTE 2 & TABLE I		3		96	1015902-8	TERMINAL - LUG		
SEE NOTE 2 & TABLE I		1		95	1015971-015	CABLE ASSY, POWER, ELECTRIC		
		2		94	1901507-001	STEEL CHANNEL, MOUNTING		
		2		93	1901507-004	STEEL CHANNEL, MOUNTING		
		6		92	1897421	FITTING ASSEMBLY		
		1		91	1902405-002	TUBING, POLYURETHANE		
		2		90	1902405-001	TUBING, POLYURETHANE		
		4		89	MS20822-6	ELBOW-FLARED TUBE & 90° PIPE THD.		
		3		88	MS20822-6K (1896851-508)	ELBOW-FLARED TUBE & 90° P. THD.		
		~~87~~				~~TUBING DIAGRAM~~		
		86			1901578	SCHEMATIC DIAGRAM, ELEC.		
		85			1901596	RUNNING LIST		
		1		84	1901586	WIRING HARNESS "A"		
		AR		83	WW-T-799A TYPE K	TUBING, COPPER - 3/8		
		AR		82	1016230-002	TUBING, POLYURETHANE (5 FT.)		
SEE NOTE 2		1		81	1017424-46	PIN, DOWEL		
		3		80	AN507C420-12 (1897003-128)	SCREW, FLAT HEAD-100°		
		35		79	MS21045-C4 (1897082-114)	NUT, SELF LOCKING, HEX.		
		50		78	MS21045-C3 (1897082-113)			
		12		77	MS21045-C06 (1897082-106)			
		16		76	MS21045-C04 (1897082-104)	NUT, SELF LOCKING, HEX.		
		8		75	MS35217-65	SCREW, PAN HEAD		
		4		74	MS35217-60			
		47		73	MS35217-56			
		33		72	MS35217-55			
		4		71	MS35216-26			
		4		70	MS35216-24			
		16		69	MS35216-15	SCREW, PAN HEAD		
		35		68	MS16996-22	SCREW, CAP - HEX. SOCKET		
		1		67	AN507C420-8 (1897003-126)	SCREW, FLAT HEAD-100°		
		2		66	AN924-6	NUT-FLARED TUBE, BULKHEAD		
		2		65	AN924-6C (1896893-306)	NUT-FLARED TUBE, BULKHEAD		
		1		64	MS20822-6-2K (1896851-507)	ELBOW-FLARED TUBE & 90° P. THD.		
		1		63	AN917-2	TEE-INTERNAL THREAD		
		1		62	AN916-2	ELBOW-90° INTERNAL THREAD		
		2		61	AN912-1	BUSHING - REDUCER		
		6		60	AN816-6C (1896850-008)	NIPPLE-FLARED TUBE & PIPE THD.		
		2		59	AN833-6C (1896892-206)	ELBOW-FLARED TUBE & 90° BLKHD.		
		1		58	AN832-6	UNION-FLARED TUBE		
		1		57	AN816-6-2C (1896850-007)	NIPPLE-FLARED TUBE & P. THD.		
		1		56	AN826-6-6	TEE-FLARED TUBE WITH PIPE THD.		
		3		55	AN824-6	TEE-FLARED TUBE		
		22		54	AN817-6	NUT, SLEEVE, COUPLING		
		11		53	AN817-6C (1896891-206)	NUT-SLEEVE, COUPLING		
		4		52	AN816-6	NIPPLE-FLARED TUBE & PIPE THD.		
		1		51	AN807-6	ADAPTER-HOSE TO UNIVERSAL		
		1		50	1902132	HANDLE, VALVE		
		1		49	1902131	PLATE, DOWEL RETAINING		
		1		48	1902130	CAM, CONTROL		
		2		47	AN960-C916 (1897006-092)	WASHER, FLAT		
SEE NOTE 2		5		46	1016007-004	HOLDER, COMPONENT		
SEE NOTE 2		2		45	1016007-003	HOLDER, COMPONENT		
		3		44	MS21919WDG-8 (1897073-208)	CLAMP, LOOP-TYPE		
SEE NOTE 2		3		43	1015918-110	TERMINAL - BLOCK		
		2		42	1897099-029	FUSE, CARTRIDGE		
		1		41	MS26572-1	FUSEHOLDER		
		1		40	1015873-001	FUSEHOLDER		
SEE NOTE 2		1		39	1015983-001	RELAY - ARMATURE		
		1		38	1015954	TRANSFORMER		
		1		37	1015869-170	LIGHT, INDICATOR ASSEMBLY		
		1		36	1015869-169	LIGHT, INDICATOR ASSEMBLY		
		1		35	1015869-168	LIGHT, INDICATOR ASSEMBLY		
		2		34	MS25307-231	SWITCH, TOGGLE		
		1		33	1016002-53	CIRCUIT BREAKER		
		1		32	1016291-001	SWITCH, FLOAT		
		1		31	1016373-001	FILTER, EXHAUST		
		2		30	1016142-002	FILTER, IN-LINE		
SEE NOTE 2		1		29	1016289-002	VALVE - 5 WAY (LESS HANDLE)		
		1		28	1016148-005	VALVE, FLOW CONTROL		
		3		27	1016286-101	VALVE - BALL, MINIATURE		
		2		26	1016286-001	VALVE - BALL, MINIATURE		
		1		25	1016136-003	GAUGE, PRESSURE, 0 TO 100 PSIG		
		1		24	1016136-002	GAUGE, PRESSURE, 0 TO 60 PSIG		
SEE TABLE I		1		23	1016288-001	GAUGE, VACUUM		
SEE NOTE 3		1		22	1901534	PUMP, ROTARY, POWER DRIVEN		
SEE NOTE 2		1		21	1902117-001	PUMP, ROTARY, POWER DRIVEN		
		1		20	1016274-005	FLOW METER		
		1		19	1901503	INDICATOR, SIGHT, LIQUID		
		2		18	1901510	REEL CORE, TUBING ASSY.		
		4		17	1901509	REEL END, TUBING ASSY.		
		1		16	1901512	BRACKET, ANGLE - ELECTRONIC		
		1		15	1901506	PLATE, MOUNTING PUMP		
SEE NOTE 3		1		14	1901501	RESERVOIR, 5 GALLON		
		1		13	1901402	TANK, WASTE		
		1		12	1901401	TANK, WATER		
		1		11	1901507-003	STEEL CHANNEL, MOUNTING		
		1		10	1901511-2	BRACKET, ANGLE - VACUUM PUMP		
		1		9	1901511-1	BRACKET, ANGLE - VACUUM PUMP		
		1		8	1901507-002	STEEL CHANNEL, MOUNTING		
		1		7	1901505-2	BRACKET ANGLE - TANK & PUMP		
		1		6	1901505-1	BRACKET, ANGLE-TANK & PUMP		
		1		5	1901504-2	BRACKET, ANGLE - WASTE TANK		
		1		4	1901504-1	BRACKET, ANGLE - WASTE TANK		
		1		3	1901513	PANEL, REAR		
		1		2	1902372	PANEL, FRONT		
SEE NOTE 3		1		1	1901925	CABINET ASSEMBLY		
QUANTITY REQUIRED			EFFECTIVITY 011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION		

LIST OF PARTS AND MATERIALS

TABLE I

ITEM NO.	CONDUCTOR COLOR	TO CIRCUIT POINT	STRIP JACKET	CUT WIRE	STRIP WIRE	CRIMP ITEM NO.
95 (REF)	BLACK	TB3-7	6.00±.06	—	20 +.03 -.00	96 REF
	WHITE	TB3-4	6.00±.06	1.50±.06	.20 +.03 -.00	96 REF
	GREEN	TB3-2	6.00±.06	3.00±.06	.20 +.03 -.00	96 REF
22 (REF)	BLACK	XF1-2	6.00±.06	.50±.06	20 +.03 -.00	TIN
	WHITE	TB1-5	6.00±.06	3.00±.06	.20 +.03 -.00	110 REF
	GREEN	TB1-9	6.00±.06	1.50±.06	.20 +.03 -.00	110 REF
23 (REF)	BLACK	TB1-1	45.00±.06	42.00±.06	.20 +.03 -.00	110 REF
	WHITE	TB1-6	45.00±.06	40.00±.06	.20 +.03 -.00	110 REF
	GREEN	TB1-10	45.00±.06	38.00±.06	.20 +.03 -.00	110 REF

SEE NOTE 7

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN

ACSP PN

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

DRAWN E. Lobos 7 FEB 65 DATE

CHECKED A. Ulbrich 1 MAR 65

APPROVAL E.B. Hyde 1 Mar 65

APPROVAL J. Fellman 3 Mar 65

FIXTURE - PURGE / FILL

MFG 3 Mar 65

NASA APPROVAL [illegible] 3 Mar 65

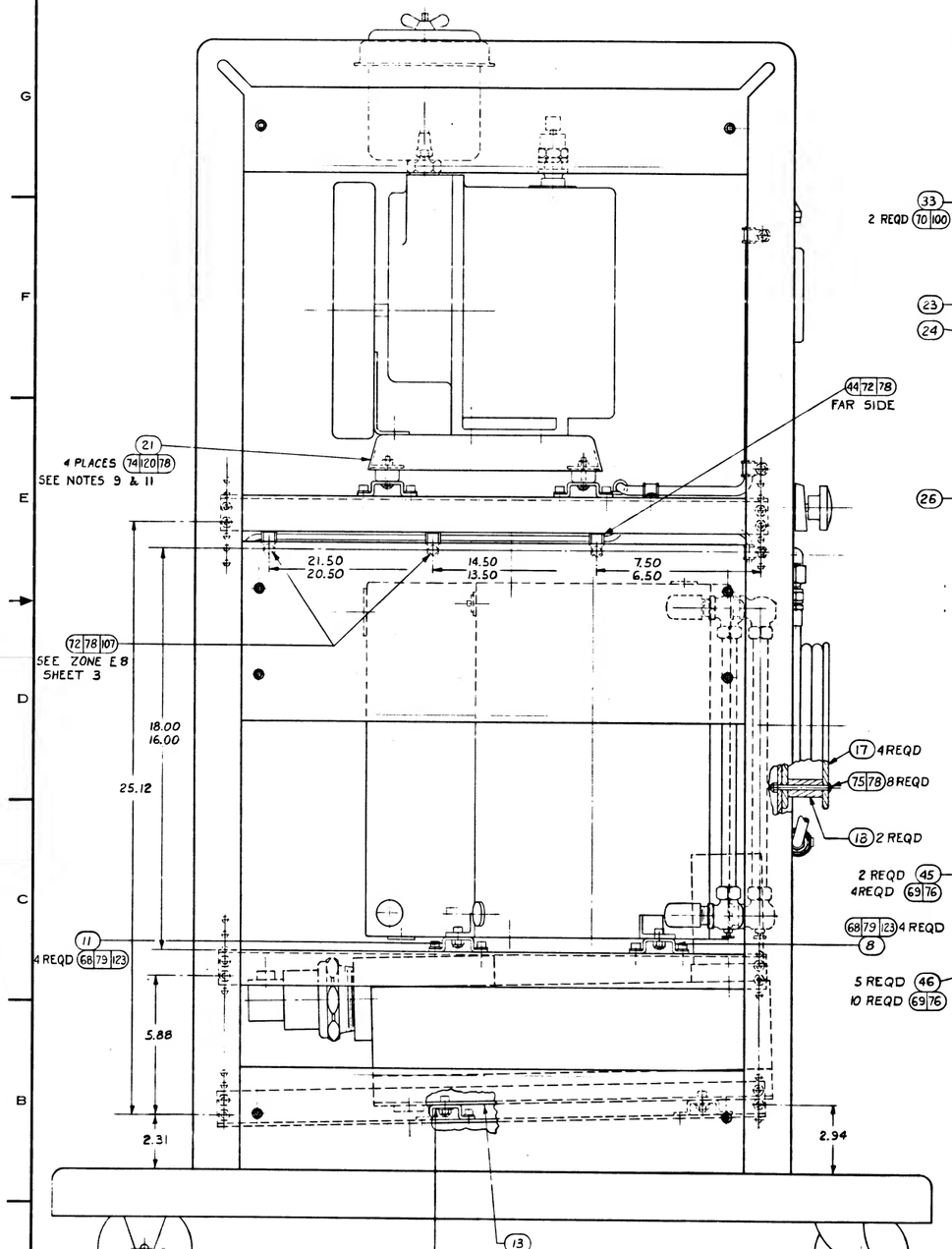
MIT APPROVAL [illegible]

CODE IDENT NO | SIZE E | 1902371

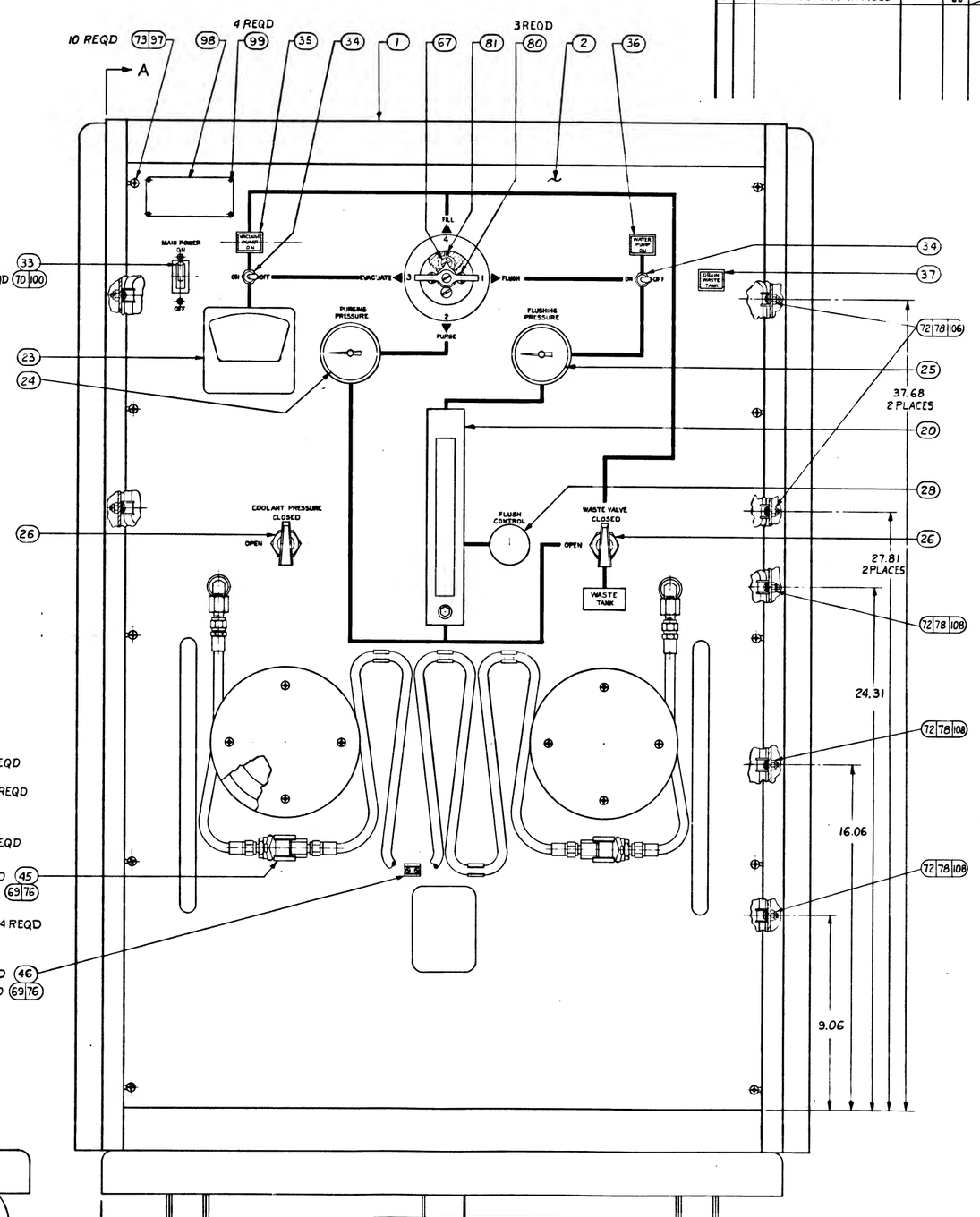
SCALE —— | SHEET 1 OF 4

1902371 E

REVISIONS					17N50
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS "A" PER TDRR 17850		23 MAR 65	
D		REVISION STATUS CHANGED		15 DEC 65	
E		REVISION STATUS CHANGED		25 MAY 66	



SECTION A-A
(SHEET 2 ZONE A4)



NEXT ASSY	USED ON	-011
APPLICATION		APPLICABLE DASH NO.

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9 - 497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP DN
DESIGN DATE 10 APR 65
CHECKED 22 MAR 65
APPROVAL 22 MAR 65
APPROVAL 31 MAR 65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FIXTURE - PURGE / FILL

CODE IDENT NO E
SIZE 1902371
SCALE 1.2
SHEET 2 OF 4

1902371 E

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
C		UPGRADED TO CLASS A PER TDRR 17450		23 MAR 65	
D		REVISION STATUS CHANGED		15 DEC 65	
E		REVISION STATUS CHANGED		23 MAY 66	PHO

72 120 4 REQD
219
227 THRU
SEE NOTE 10

10.000
4.00
6.00
4.000

PARTIAL VIEW C - C
SHEET 3 ZONE C-1

B
B
SHEET 3 ZONE B-3

31
72 78 117
21
72 78 117 118 2 REQD IN LINE
116
12
4 68 79 REQD.
107 72 78 3 REQD
14
68 79 3 REQD
22
72 78 4 REQD
32
6
73 97 4 REQD
7
4 73 97 REQD
95 96 TABLE I
44 72 78
3
73 97 4 REQD
4
73 97 4 REQD
5
4 REQD 73 97
43
2 REQD 69 76
15
4 REQD 73 78
105 72 78

SPARE
WATER PUMP
2 SWP
VAC. PUMP
NITROGEN INLET
DRAIN

VIEW WITH DOOR OPENED 90°

44 72 78
72 108 78
29
49
48
50
19
84
72 78 109 2 REQD
72 78 109
72 78 109
93
68 79 123 4 REQD
93
68 79 123 4 REQD
9
73 97 4 REQD
73 78
4 REQD 77
39
38
4 REQD 77
43
2 REQD 71 77
16
4 REQD 73 78
10
4 REQD 73 97
41 42
40 42
43
71 77 2 REQD
104
70 100 2 REQD
122
121

C
C
SHEET 3 ZONE F-3

SECTION VIEW B - B
SHEET 3 ZONE F-8

			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
			FRACTIONS ± DECIMALS ± ANGLES ±	ACSP PN	FIXTURE - PURGE / FILL
			DO NOT SCALE THIS DRAWING	DRAWN R. Kahling 3 MAR 65	
			MATERIAL —	CHECKED [illegible] 22 MAR 65	
NEXT ASSY	USED ON	-011 APPLICABLE DASH NO.		APPROVAL [illegible] 22 MAR 65	
APPLICATION				APPROVAL [illegible] 23 MAR 65	
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT NAS 9-497	NASA APPROVAL [illegible]	CODE IDENT NO. SIZE E 1902371
				MIT APPROVAL [illegible]	SCALE 1:2 SHEET 3 OF 4

1902371 E

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
C		UPGRADED TO CLASS "A" PER TDRR 17850		23 MAR 65	
D		REVISED PER TDRR 24572		15 DEC 65	
E		REVISION STATUS CHANGED		25 MAY 66	

OUTSIDE FACILITY

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
			ACSP PN		
			DR/MN	DATE	
			CHK Sanderson	22 MAR 65	FIXTURE - PURGE / FILL TUBING DIAGRAM
			APPROVAL	22 MAR 65	
			APPROVAL		
1902269-011	1902269-011	MATERIAL	NASA APPROVAL		CODE IDENT NO. / SIZE E / 1902371
NEXT ASSY	USED ON		MIT APPROVAL		SCALE — / SHEET 1 OF 1
APPLICATION		CONTRACT NAS 9-497			

1902371 E

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1901308	1900005-011	B	UPGRADED TO CLASS A PER TORR 17840	19 MAR 65	HTO

Charles Cox 15 FEB 65

REV SHEET											
REV STATUS OF SHEETS	REV	B	B	B	B	B	B	B	B	B	B
	SHEET	1	2	3	4	5	6	7	8	9	10	11

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. Tamsen DATE 5 FEB 65

CHECKED Ulajich 8 FEB 65

APPROVAL R. Perini 18 FEB 65

APPROVAL J. M. Nelson 3-26-65

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE INTERCONNECT W55 G&N TESTING

CODE IDENT NO.	SIZE		REV
	A	1902374	B

SCALE —

SHEET 1 OF 11

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE.
8	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
9	A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
12	MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER
16	QTY.4 ITEM 17 REQUIRED. FURNISH WITH ITEM 7.
17	QTY.9 ITEM 18 REQUIRED. FURNISH WITH ITEM 7.
18	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 14 AND 15, OR 16.
19	SECURE TO CABLE USING ITEM 24, MARKING TO READ AWAY FROM CONNECTOR.
20	SEAL ZIPPER TUBING PER ND1002153
21	SERIALIZE PER ND1002023
22	ASSEMBLE CONTACTS IN CONNECTOR GROMMET HOLES.
23	SEE NOTES 10 AND 22.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
	TOLERANCE				
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1900999-001	WIRE ND1002181 TYPE 1, CLASS 1, 16AWG, WHT 160 FT. TOTAL LENGTH.
	2	1	1900999-002	WIRE ND1002181 TYPE 1, CLASS 1, 12AWG, WHT 112 FT. TOTAL LENGTH.
	3	1	1900999-003	WIRE ND1002181 TYPE 1, CLASS 1, 14AWG, WHT 96 FT. TOTAL LENGTH
	4	1	1900999-004	WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 16AWG WHT/BLU, WHT/RED, 16 FT. TOTAL LENGTH
	5	1	1900999-005	WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT, 6 IN. TOTAL LENGTH
	6	1	MS3106R-36-9P	(1897126-090) CONNECTOR-PLUG
23	7	1	1016181-001	CONNECTOR-PLUG
10	8	1	1000243- 23	FERRULE, ELECT.
10	9	1	1000242- 18	FERRULE, ELECT.
10	10	2	1010490-194	INSULATION SLEEVING ELECT.
10	11	1	1016128-011	BAND-IDENTIFICATION
10	12	3	1016128-041	BAND-IDENTIFICATION
	13	1	1900999-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE, .75 DIA 16 FT. TOTAL LENGTH
	14	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	15	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	16	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
16	17	X		CONNECTOR CONTACTS, SOCKET NO. 16
17	18	X		CONNECTOR CONTACTS, SOCKET NO. 12
	19	1	1900999-007	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE, .50 DIA. 1 FT. TOTAL LENGTH
10	20	2	1015902- 3	TERMINAL LUG
10	21	9	1016006-003	SPLICE REDUCER
10	22	9	1010490-224	INSULATION SLEEVING, ELECTRICAL
10	23	4	1015902- 12	TERMINAL LUG
8	24	AR	1012507-004	TAPE, LACING AND TYING

LEAD IDENT	ITEM	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		P1-D E6					.25 .37	YES NO			
A	2	2		P1-I E7					.25 .37	YES NO			
A	3	2		P1-J P2-C					.25 .37	YES NO			
A	4	3		P1-K E8					.25 .37	YES NO			
A	5	3		P1-M E9					.25 .37	YES NO			
A	6	4				5.30 2.30	5.00 2.00				5 7A	A 10, 8, 9 A 10	
A	6A	5		SHLD A6 P1-C*					.37 .25	NO YES			
A	6L			P1-E* P2-K					.25 .25	YES NO		17	
A	6R			P1-D* P2-N					.25 .25	YES NO		17	
A	7	2		P1-S E2					.25 .37	YES NO			
A	8	2		E1 P2-E					.37 .25	NO NO		18	
A	9	1		P1-E E3					.25 .37	YES NO			

LEAD IDENT	ITEM	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	10	2		P1-U E4					.25 .37	YES NO			
A	11	2		P1-V E5					.25 .37	YES NO			
A	12	1		P3-6 P2-L					.32 .25	NO NO		25 17	
A	13	2		E1 P1-T					.37 .25	NO YES			
A	14	1		E1 P1-X					.37 .25	NO YES			
A	15	2		E1 P3-5					.37 .32	NO NO		23	
A	16	2		E2 P3-1					.37 .32	NO NO		23	
A	17	1		E3 P3-2					.37 .32	NO NO		25	
A	18	2		E4 P3-3					.37 .32	NO NO		23	
A	19	2		E5 P3-4					.37 .32	NO NO		23	
A	20	2		E2 P2-D					.37 .25	NO NO		18	
A	21	1		E3 P2-F					.37 .25	NO NO		18	

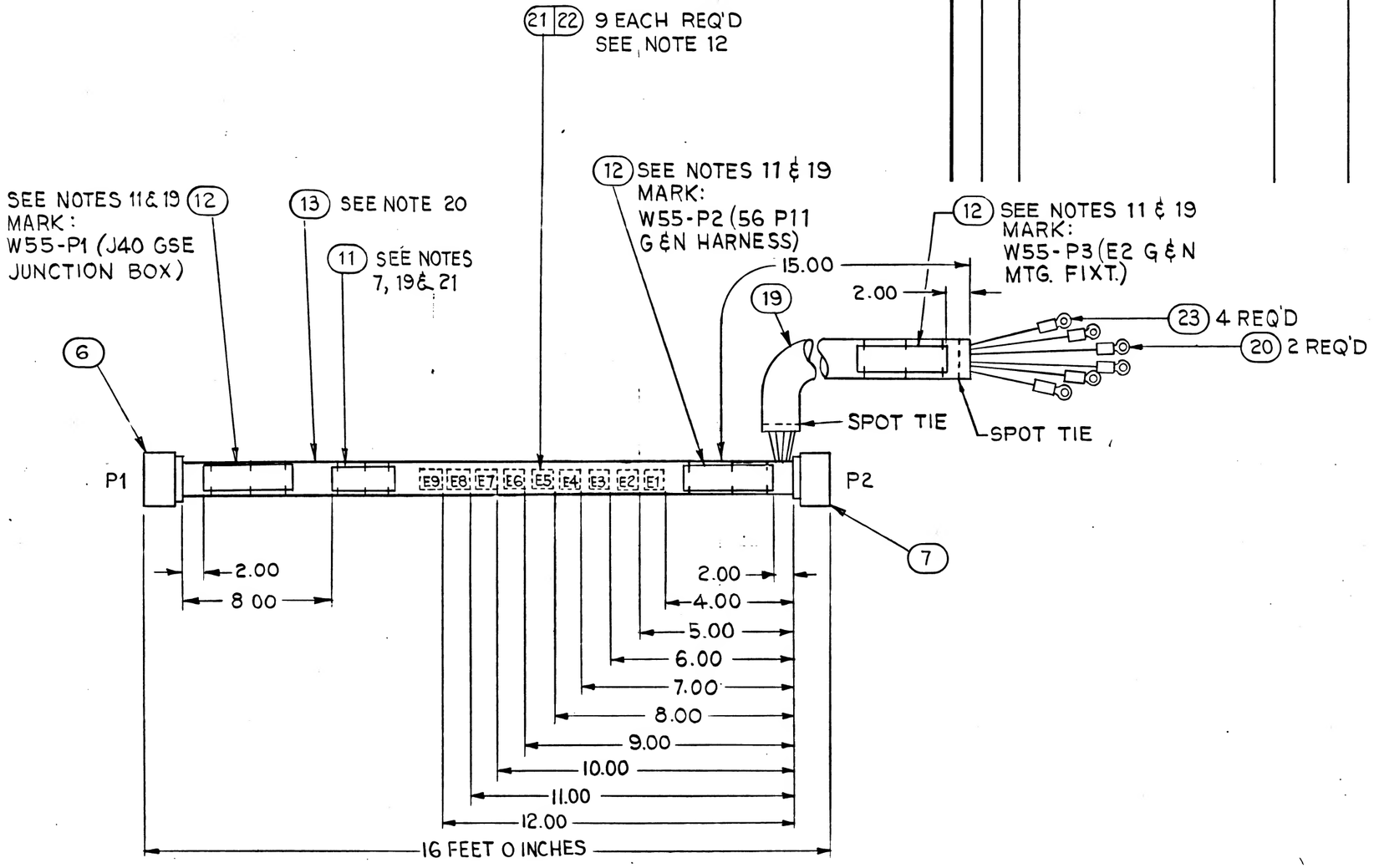
LEAD IDENT	ITEM	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	22	2		E4 P2-G					.37 .25	NO NO		18	
A	23	2		E5 P2-J					.37 .25	NO NO		18	
A	24	1		E2 P1-F					.25	YES			
A	25	1		E4 P1-B*					.25	YES			
A	26	1		E5 P1-F*					.25	YES			
A	27	3		P1-A* E9					.25 .37	YES NO			
A	28	1		P1-C E7					.25 .37	YES NO			
A	29	1		P1-A E6					.25 .37	YES NO			
A	30	3		P1-G E8					.25 .37	YES NO			
A	31	1		E6 P2-M					.37 .25	NO NO		17	
A	32	1		E7 P2-B					.37 .25	NO NO		18	
A	33	3		E8 P2-H					.37 .25	NO NO		18	

CABLE W55 1902374 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JNT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	34 3		E9					.37	NO			
			P2-A					.25	NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902374
SCALE - NONE	REV LTR B	SHEET 10 OF 11

REVISIONS 17840				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD (CHG NO.)		



LOCATION TOLERANCE (EXCEPT LENGTH): ±.50

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R. TAMSEN 5 FEB 65
CHECKED A. UDOVICH 18 FEB 65
APPROVAL R. PIERINI 22 FEB 65
APPROVAL J. M. Watson 3-2 5-65
NASA APPROVAL MAR 6 1965
MIT APPROVAL MAR 6 1965

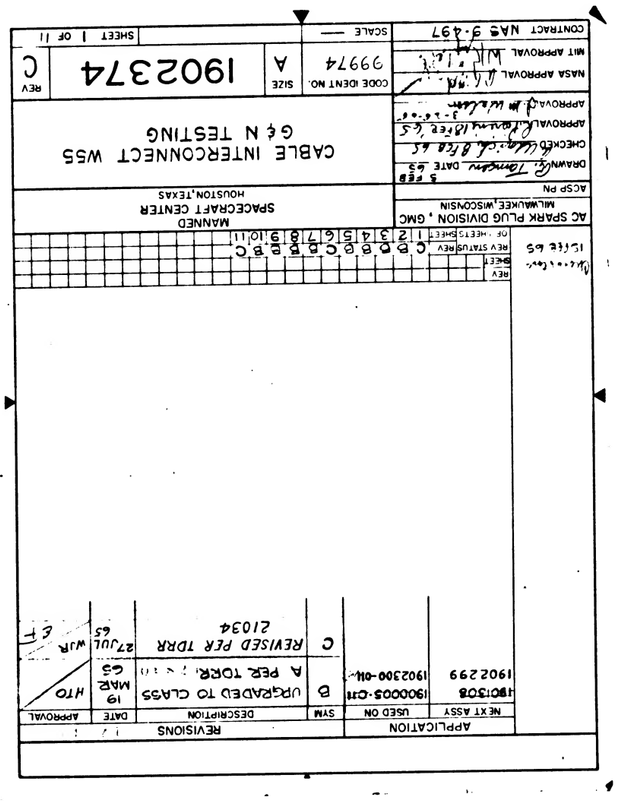
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE INTERCONNECT W55 G & N TESTING

CODE IDENT NO. | SIZE C | 1902374
SCALE NONE | SHEET 11 OF 11

MIL 1077C-P

1902374B


CABLE INTERCONNECT W55
G & N TESTING
1902374
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN
CONTRACT NAS 9-497
SCALE —
SHEET 1 OF 11
REVISIONS
DESCRIPTION
USED ON
NEXT ASSY
REVISED PER TDRR 21034
UPGRADED TO CLASS A PER TDRR
APPLICATION
APPROVAL

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 15 INCHES MAX. AND AT EACH TERMINATION.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). .12 INCH HIGH CHARACTERS WHITE.
8	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
9	A LETTER WITH AN ASTERISK SUFFIX, INDICATES A LOWER CASE LETTER.
10	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
11	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
12	MARK SLEEVING WITH REFERENCE DESIGNATIONS AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
13	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
15	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER
16	QTY.4 ITEM 17 REQUIRED. FURNISH WITH ITEM 7.
17	QTY.9 ITEM 18 REQUIRED. FURNISH WITH ITEM 7.
18	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS 14 AND 15, OR 16.
19	SECURE TO CABLE USING ITEM 24, MARKING TO READ AWAY FROM CONNECTOR.
20	SEAL ZIPPER TUBING PER ND1002153
21	SERIALIZE PER ND1002023
22	ASSEMBLE CONTACTS IN CONNECTOR GROMMET HOLES.
23	SEE NOTES 10 AND 22.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1900999-001	WIRE ND1002181 TYPE 1, CLASS 1, 16AWG, WHT 160 FT. TOTAL LENGTH.
	2	1	1900999-002	WIRE ND1002181 TYPE 1, CLASS 1, 12AWG, WHT 112 FT. TOTAL LENGTH.
	3	1	1900999-003	WIRE ND1002181 TYPE 1, CLASS 1, 14AWG, WHT 96 FT. TOTAL LENGTH.
	4	1	1900999-004	WIRE ND1002181 TYPE 2, CLASS 4, WHT JAKT, 16AWG WHT/BLU, WHT/RED, 16 FT. TOTAL LENGTH
	5	1	1900999-005	WIRE ND1002181 TYPE 1, CLASS 1, 22AWG WHT, 6 IN. TOTAL LENGTH
	6	1	MS3106R-36-9P	(1897126-090) CONNECTOR-PLUG
23	7	1	1016181-001	CONNECTOR-PLUG
10	8	1	1000243- 23	FERRULE, ELECT.
10	9	1	1000242- 18	FERRULE, ELECT.
10	10	2	1010490-194	INSULATION SLEEVING ELECT.
10	11	1	1016128-011	BAND-IDENTIFICATION
10	12	3	1016128-041	BAND-IDENTIFICATION
	13	1	1900999-006	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE, .75 DIA 16 FT. TOTAL LENGTH
	14	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	15	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	16	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
16	17	X		CONNECTOR CONTACTS, SOCKET NO. 16
17	18	X		CONNECTOR CONTACTS, SOCKET NO. 12
	19	1	1900999-007	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE, .50 DIA. 1 FT. TOTAL LENGTH
10	20	2	1015902- 3	TERMINAL LUG
10	21	#5	1016006-003	SPLICE REDUCER
10	22	9	1010490-224	INSULATION SLEEVING, ELECTRICAL
10	23	4	1015902- 12	TERMINAL LUG
8	24	AR	1012507-004	TAPE, LACING AND TYING
10	25	4	1016006-004	SPLICE REDUCER

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902374
SCALE - NONE	REV LTR C	SHEET 6 OF 11

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		P1-D E6					.25 .37	YES NO			
A	2	2		P1-I E7					.25 .37	YES NO			
A	3	2		P1-J P2-C					.25 .37	YES NO			
A	4	3		P1-K E8					.25 .37	YES NO			
A	5	3		P1-M E9					.25 .37	YES NO			
A	6	4				5.30 2.30	5.00 2.00				5 7A	A 10, 8, 9 A 10	
A	6A	5		SHLD A6 P1-C*					.37 .25	NO YES			
A	6L			P1-E* P2-K					.25 .25	YES NO		17	
A	6R			P1-D* P2-N					.25 .25	YES NO		17	
A	7	2		P1-S E2					.25 .37	YES NO			
A	8	2		E1 P2-E					.37 .25	NO NO		18	
A	9	1		P1-E E3					.25 .37	YES NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902374
SCALE - NONE	REV LTR B	SHEET 7 OF 11

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	10	2		P1-U E4					.25 .37	YES NO			
A	11	2		P1-V E5					.25 .37	YES NO			
A	12	1		P3-6 P2-L					.32 .25	NO NO		25 17	
A	13	2		E1 P1-T					.37 .25	NO YES			
A	14	1		E1 P1-X					.37 .25	NO YES			
A	15	2		E1 P3-5					.37 .32	NO NO		23	
A	16	2		E2 P3-1					.37 .32	NO NO		23	
A	17	1		E3 P3-2					.37 .32	NO NO		25	
A	18	2		E4 P3-3					.37 .32	NO NO		23	
A	19	2		E5 P3-4					.37 .32	NO NO		23	
A	20	2		E2 P2-D					.37 .25	NO NO		18	
A	21	1		E3 P2-F					.37 .25	NO NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902374
SCALE - NONE	REV LTR B	SHEET 8 OF 11

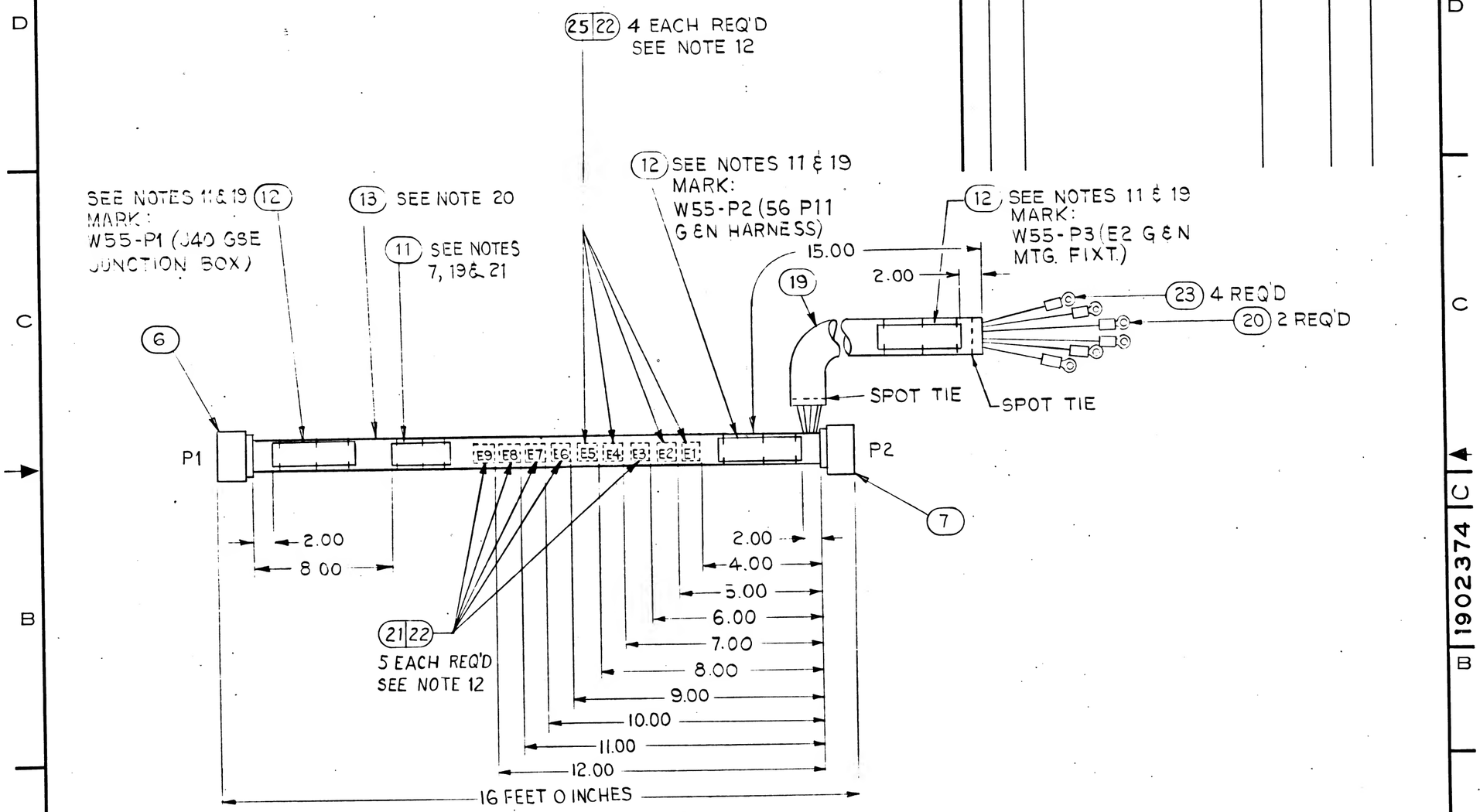
LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	22	2		E4 P2-G					.37 .25	NO NO		18	
A	23	2		E5 P2-J					.37 .25	NO NO		18	
A	24	1		E2 P1-F					.25	YES			
A	25	1		E4 P1-B*					.25	YES			
A	26	1		E5 P1-F*					.25	YES			
A	27	3		P1-A* E9					.25 .37	YES NO			
A	28	1		P1-C E7					.25 .37	YES NO			
A	29	1		P1-A E6					.25 .37	YES NO			
A	30	3		P1-G E8					.25 .37	YES NO			
A	31	1		E6 P2-M					.37 .25	NO NO		17	
A	32	1		E7 P2-B					.37 .25	NO NO		18	
A	33	3		E8 P2-H					.37 .25	NO NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902374
SCALE - NONE	REV LTR B	SHEET 9 OF 11

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	34 3		E9					.37	NO			
			P2-A					.25	NO		18	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902374
SCALE-NONE	REV LTR B	SHEET 10 OF 11

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



LOCATION TOLERANCE (EXCEPT LENGTH): ±.50

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. TAMSEN 5 FEB 65 DATE

CHECKED A. UDOVICH 18 FEB 65

APPROVAL R. PIERINI 22 FEB 65

APPROVAL

NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE INTERCONNECT W55 G & N TESTING

CODE IDENT NO	SIZE	
	C	1902374

SCALE NONE SHEET 11 OF 11

MIL 1077C-P

1902374

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		B	UPGRADED FOR CLASS A RELEASE PER TDRR 17840	22 MAR 65	JWP

D058979

Worksh. 15 FEB 65

REV																																		
SHEET																																		
REV STATUS	REV	B		B		B		B		B																								
OF SHEETS	SHEET	1		2		3		4		5																								

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. Tamsen DATE 5 FEB 65

CHECKED A. Wyrick 8 FEB 65

APPROVAL R. Peirce 17 FEB 65

APPROVAL M. Walton 3-26-65

NASA APPROVAL

MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

KIT WIRE LIST FOR:
CABLE INTERCONNECT W55
G¢N TESTING
(1900999)

CODE IDENT NO.

SIZE A

1902380

REV B

SCALE —

SHEET 1 OF 5

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	DOES NOT APPLY
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	MARK LEAD IDENTIFICATION PER ND1002019.
4	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
5	SPIRALLING OF THE MARKING IS ALLOWED.
6	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).
7	LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.
8	VENDOR ITEM - SEE SPEC CONTROL DRAWING
9	SEE NOTES 6 AND 8

NOTE NUMBER GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902380-001	WIRE ND1002181 TYPE 1, CLASS 1, 16AWG WHT 110 FEET TOTAL LENGTH.
	2			DELETED (1902380-002)
	3			DELETED (1902380-003)
8	4	7	1016006-003	SPLICE REDUCER
8	5	7	1010490-224	INSULATION SLEEVING
	6	1	1902380-004	ZIPPER TUBING ND1002155 TYPE 1, PLASTIC FLEXIBLE, .75 DIA 16 FEET TOTAL LENGTH
9	7	1	1016128-011	IDENTIFICATION BAND
8	8	7	1010490-198	INSULATION SLEEVING, ELECTRICAL.

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	24	1 187.00										
A	25	1 185.00										
A	26	1 184.00										
A	27	1 180.00										
A	28	1 182.00										
A	29	1 183.00										
A	30	1 181.00										

APPLICATION		REVISIONS 17819			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902299-011	1902299-011	C	UPGRADED TO CLASS A PER TDR 17840	22 MAR 65	

Houston 15 FEB 65	REV								
	SHEET								
	REV STATUS	REV	C	C	C	C	C	C	C
	OF SHEETS	SHEET	1	2	3	4	5	6	7	8

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN R. Jansen DATE 5 FEB 65
CHECKED Ed Foster 15 Feb 65
APPROVAL R. Purvis 15 Feb 65
APPROVED J. M. Walsh 2-24-65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL - W97

NASA APPROVAL
MIT APPROVAL

CODE IDENT NO.	SIZE		REV
	A	1902381	C

CONTRACT NAS 9-497 | SCALE — | SHEET 1 OF 8

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND 1002206 FIG.5
2	ASSEMBLE PER ND 1002032
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION ON SINGLE LEADS PER ND 1002019 OMITTING ALL SUFFIX LETTERS EXCEPT A AND B.
~~5~~	~~SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.~~
~~6~~	~~SPIRALLING OF THE MARKING IS ALLOWED.~~
7	IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267). .12 HIGH, COLOR WHITE
8	FASTEN MARKER SECURELY WITH ITEM 18. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION. MARKING TO READ AWAY FROM CONNECTORS
9	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
10	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH COLOR WHITE, HOT IMPRESSION STAMPS PER ND1002019 CENTRALIZE
11	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
12	A OR T PREFIX IN THE ACCESSORIES ITEM NUMBER COLUMN INDICATES THE READING POSITION AWAY FROM THE TERMINATION OR TOWARD TERMINATION RESPECTIVELY, OF THE WIRE MARKER SLEEVE.
13	ITEMS 7 AND 8 FURNISHED WITH ITEMS 5 AND 6.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. B - TO END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER Y - WHITE WITH YELLOW TRACER
15	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES
16	SEAL ZIPPER TUBING PER ND1002153.
17	SERIALIZE PER ND 1002023
18	MARK SLEEVING OF MULTI-LEADS WITH THE LEAD NUMBER .12 INCH HIGH, COLOR BLACK, PER ND 1002019 WHEN SLEEVING ITEM NUMBERS FOLLOW AN A OR T IN THE ACCESSORIES ITEM NUMBER FIELD.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902381- 1	WIRE, ND1002181 CLASS 1, TYPE 1, 22AWG WHT 12 INCHES TOTAL LENGTH
	2	1	1902381- 2	WIRE, ND1002181 CLASS 1, TYPE 1, 20AWG WHT 42 FEET TOTAL LENGTH
	3	1	1902381- 3	WIRE, ND1002181 CLASS 2, TYPE 4 WHT JKT, 20AWG WHT/RED, WHT/BLU, 6 FEET TOTAL LENGTH
	4	1	1902381- 4	WIRE, ND1002181 CLASS 3, TYPE 4 WHT JKT 20AWG WHT/RED, WHT/BLU, WHT/YEL 6 FT. TOTAL LENGTH
	5	1	MS3126F-14-15P	CONNECTOR, PLUG ELEC. CRIMP TYPE
	6	1	MS3126F-14-15S	CONNECTOR, SOCKET ELEC. CRIMP TYPE
13	7	15	MS3193A-20A	(1896877-020) CONTACT, SOCKET, CRIMP TYPE
13	8	15	MS3192A-20A	(1896855-020) CONTACT, PIN, CRIMP TYPE
9	9	1	1000243- 14	FERRULE, ELEC. COND
9	10	1	1000242- 12	FERRULE, ELEC. COND
9	11	1	1000243- 15	FERRULE, ELEC. COND
9	12	1	1000242- 16	FERRULE, ELEC. COND
9	13	2	1010490-194	INSULATION, SLEEVING
9	14	2	1010490-196	INSULATION, SLEEVING
9	15	1	1016128-011	IDENTIFICATION BAND
9	16	2	1016128-041	IDENTIFICATION BAND

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	1	1902381- 5	ZIPPER TUBING, ND1002155 TYPE 1, PLASTIC FLEXIBLE .50DIA 6 FEET TOTAL LENGTH
	18	AR	1012507-004	TAPE, LACING AND TYING

CABLE W97 1902381 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	2	P1-A					.22	NO		8	
			P2-A					.22	NO		7	
A	2	4			1.75	1.50					A 14	
					1.75	1.50				5	A 13, 11, 12	
A	2B	1	P2-B					.22	NO		7	
			SHLD A2					.37	NO			
A	2L		P1-D					.22	NO		8	
			P2-D					.22	NO		7	
A	2R		P1-C					.22	NO		8	
			P2-C					.22	NO		7	
A	2Y		P1-E					.22	NO		8	
			P2-E					.22	NO		7	
A	3	3			1.75	1.50					A 14	
					1.75	1.50				5	A 13, 9, 10	
A	3B	1	P2-H					.22	NO		7	
			SHLD A3					.37	NO			
A	3L		P1-G					.22	NO		8	
			P2-G					.22	NO		7	
A	3R		P1-F					.22	NO		8	
			P2-F					.22	NO		7	
A	4	2	P1-J					.22	NO		8	
			P2-J					.22	NO		7	
A	5	2	P1-K					.22	NO		8	
			P2-K					.22	NO		7	

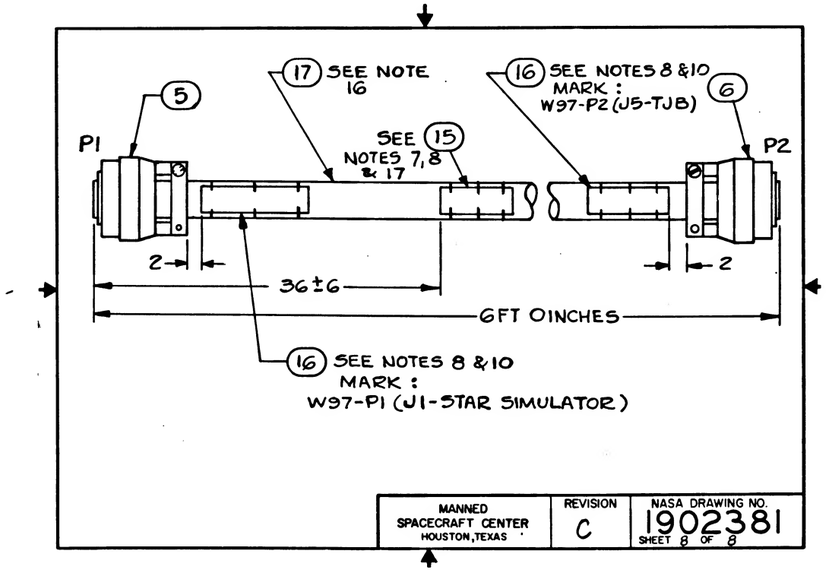
MIL 8064 4-63

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902381
SCALE - NONE	REV LTR C	SHEET 6 OF 8

CABLE W97 1902381 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6	2	P1-L					.22	NO		8	
			P2-L					.22	NO		7	
A	7	2	P1-M					.22	NO		8	
			P2-M					.22	NO		7	
A	8	2	P1-N					.22	NO		8	
			P2-N					.22	NO		7	
A	9	2	P1-P					.22	NO		8	
			P2-P					.22	NO		7	
A	10	2	P1-R					.22	NO		8	
			P2-R					.22	NO		7	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902381
SCALE - NONE	REV LTR C	SHEET 7 OF 8



MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION C	NASA DRAWING NO. 1902381 SHEET 8 OF 8

APPLICATION		REVISIONS 17839			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1901981-011	1901981-011	A	UPGRADED TO CLASS 'A' PER TDRR 17839	16 MAR -65	

Charleston 25FEB65

REV	A	A	A														
SHEET	14	15	16														
REV STATUS	REV																
OF SHEETS	SHEET																
		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
		1	2	3	4	5	6	7	8	9	10	11	12	V3			

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
ACSP PN	
DRAWN Frank K Nelson DATE 10FEB65	WIRING HARNESS "L"
CHECKED J Taylor 25FEB65	
APPROVAL R Rinaldi 24Feb65	
APPROVAL J M Watson 3-25-65	
NASA APPROVAL	CODE IDENT NO. / SIZE A / 1902382 / REV A
MIT APPROVAL	
CONTRACT NAS9-497	SCALE — / SHEET 1 OF 16

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION---- FIG.1 IS FIG.4 OF ND1002206 FIG.2 IS FIG.7 OF ND1002032 FIG.3 IS FIG.5 OF ND1002206
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	MARK LEAD IDENTIFICATION PER ND1002019.
4	LACE HARNESS USING ITEM 6.
5	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267).
6	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 21, OR 9 AND 10.
7	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
8	GRID MODULE IS 1 INCH BASIC
9	UNLESS OTHERWISE SPECIFIED --- FEATURE CENTERLINES ARE LOCATED WITHIN + OR - .25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - .12 INCH
10	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
11	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

MIL 2084 4-63

NOTE NUMBER	GENERAL NOTES DESCRIPTION
12	THE SUFFIX LETTER OF A LEAD IDENTIFICATION NUMBER INDICATES LEAD SHIELDING, COLOR, OR MARKING. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - BLUE R - RED Y - YELLOW
13	FASTEN MARKER SECURELY WITH ITEM 6. WRAP MARKER TO CONFORM TO CABLE CONFIGURATION.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.05-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MIL 2084 4-63

SEE NOTE — LIST OF MAIERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902382-001	WIRE ND1002181, CLASS 1, TYPE 1, 24AWG, WHT. 172 FEET TOTAL LENGTH
	2	1	1902382-002	WIRE RG-188 A/U MIL-C-17 (ES713-69)
11	3	2	1000243-002	FERRULE-ELECT. COND.
11	4	2	1000242-004	FERRULE-ELECT. COND.
11	5	5	1010490-198	INSULATION SLEEVING ELECT.
	6	AR	MIL-T-713	LACING TAPE, TYPE P, CLASS 2, BLACK (ES2732 NO. 18)
	7	1	MS3127E22-55S	(1897054-550) CONNECTOR
	8	1	MS3127E22-55SW	(1897054-551) CONNECTOR
	9	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	10	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	11	1	1902382-003	WIRE ND1002181, CLASS 4, TYPE 3, WHT JACKET, 24AWG RED, BLUE, YELLOW 6 FT. TOTAL LENGTH
	12	1	1902382-004	WIRE ND1002181, CLASS 4, TYPE 2, WHITE JACKET, 24AWG RED, BLUE 3 FT. TOTAL LENGTH
	13	1	1902382-005	WIRE ND1002181, CLASS 1, TYPE 1, 22AWG, 19 STRAND, WHITE, 2 FT. TOTAL LENGTH
11	14	2	1000243-008	FERRULE (INNER)
11	15	2	1000242-007	FERRULE (OUTER)
11	16	1	1000243-006	FERRULE (INNER)

MIL 2084 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
11	17	1	1000242-005	FERRULE (OUTER)
11	18	3	1010490-108	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE
11	19	10	1015864-109	INSULATION SLEEVING, ELECTRICAL, CLEAR
11	20	1	1016128-001	BAND-IDENTIFICATION, BLANK.
	21	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

MIL 2084 4-63

WIRING HARNESS L 1902382 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 1	1		J12-C TB11-306	1 3				.19 .25	NO YES			
L 2	1		J12-D TB11-313	1 5				.19 .25	NO YES			
L 3	1		J12-E TB11-305	1 65				.19 .25	NO YES			
L 4	1		J12-F TB11-314	1 4				.19 .25	NO YES			
L 5	1		J12-H TB11-312	1 6				.19 .25	NO YES			
L 6	1		J12-G TB11-304	1 64				.19 .25	NO YES			
L 7	1		J12-J TB11-300	1 63				.19 .25	NO YES			
L 8	1		J12-L TB11-299	1 62				.19 .25	NO YES			
L 9	1		J12-U TB11-292	1 61				.19 .25	NO YES			
L 10	1		J12-V TB11-298	1 60				.19 .25	NO YES			
L 17	1		J12-C* TB11-176	1 14				.19 .25	NO YES			
L 18	1		J12-D* TB11-175	1 16				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382
SCALE-NONE | REV LTR A | SHEET 6 OF 16

MIL 2064 4-63

WIRING HARNESS L 1902382 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 19	1		J12-E* TB11-169	1 19				.19 .25	NO YES			
L 20	1		J12-F* TB11-166	1 53				.19 .25	NO YES			
L 21	1		J12-G* TB11-162	1 48				.19 .25	NO YES			
L 22	1		J12-H* TB11-160	1 54				.19 .25	NO YES			
L 23	1		J12-N* TB11-173	1 22				.19 .25	NO YES			
L 24	1		J12-P* TB11-146	1 52				.19 .25	NO YES			
L 25	1		J12-G* TB11-174	1 21				.19 .25	NO YES			
L 26	1		J12-R* TB11-151	1 50				.19 .25	NO YES			
L 27	1		J12-S* TB11-168	1 20				.19 .25	NO YES			
L 28	1		J12-T* TB11-157	1 49				.19 .25	NO YES			
L 33	1		J12-AA TB11-98	1 30				.19 .25	NO YES			
L 34	1		J12-BB TB11-91	1 29				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382
SCALE-NONE | REV LTR A | SHEET 7 OF 16

MIL 2064 4-63

WIRING HARNESS L 1902382 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 35	1		J12-CC TB11-97	1 30				.19 .25	NO YES			
L 36	1		J12-DD TB11-92	1 29				.19 .25	NO YES			
L 37	1		J12-EE TB11-35	1 34				.19 .25	NO YES			
L 38	1		J12-FF TB11-29	1 40				.19 .25	NO YES			
L 39	1		J12-GG TB11-33	1 37				.19 .25	NO YES			
L 40	1		J12-HH TB11-32	1 38				.19 .25	NO YES			
L 41	1		J12-K* TB11-224	1 10				.19 .25	NO YES			
L 42	1		J12-M* TB11-228	1 11				.19 .25	NO YES			
L 43	1		J12-Z* TB11-113	1 26				.19 .25	NO YES			
L 45	1		J12-Y* TB11-104	1 46				.19 .25	NO YES			
L 47	1		J13-C TB11-172	2 15				.19 .25	NO YES			
L 48	1		J13-D TB11-147	2 52				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382
SCALE-NONE | REV LTR A | SHEET 8 OF 16

MIL 2064 4-63

WIRING HARNESS L 1902382 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 49	1		J13-E TB11-165	2 48				.19 .25	NO YES			
L 50	1		J13-F TB11-152	2 50				.19 .25	NO YES			
L 51	1		J13-G TB11-171	2 17				.19 .25	NO YES			
L 52	1		J13-H TB11-158	2 49				.19 .25	NO YES			
L 53	1		J13-J TB11-164	2 48				.19 .25	NO YES			
L 54	1		J13-K TB11-159	2 49				.19 .25	NO YES			
L 55	1		J13-L TB11-170	2 18				.19 .25	NO YES			
L 56	1		J13-M TB11-153	2 50				.19 .25	NO YES			
L 57	1		J13-U TB11-163	2 48				.19 .25	NO YES			
L 58	1		J13-V TB11-148	2 52				.19 .25	NO YES			
L 59	1		J13-AA TB11-195	2 56				.19 .25	NO YES			
L 60	1		J13-BB TB11-206	2 12				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382
SCALE-NONE | REV LTR A | SHEET 9 OF 16

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 61	1		J13-W• TB11-180	2 55				.19 .25	NO YES			
L 62	1		J13-X• TB11-191	2 13				.19 .25	NO YES			
L 63	1		J13-U• TB11-119	2 47				.19 .25	NO YES			
L 64	1		J13-V• TB11-130	2 23				.19 .25	NO YES			
L 65	1		J13-GG XF1-1	2 35				.19 .25	NO YES			
L 66	1		J13-EE TB11-81	2 42				.19 .25	NO YES			
L 67	1		J13-FF TB11-82	2 42				.19 .25	NO YES			
L 68	1		J13-I• TB11-77	2 41				.19 .25	NO YES			
L 69	1		J13-J• TB11-76	2 41				.19 .25	NO YES			
L 70	1		J13-P TB11-75	2 41				.19 .25	NO YES			
L 71	1		J13-K• TB11-72	2 45				.19 .25	NO YES			
L 72	1		J13-M• TB11-71	2 45				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382 | SCALE-NONE | REV LTR A | SHEET 10 OF 16

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 73	1		J13-W TB11-96	2 27				.19 .25	NO YES			
L 74	1		J13-X TB11-89	2 43				.19 .25	NO YES			
L 75	1		J13-Y TB11-95	2 28				.19 .25	NO YES			
L 76	1		J13-Z TB11-90	2 43				.19 .25	NO YES			
L 77	1		J13-A• TB11-94	2 28				.19 .25	NO YES			
L 78	1		J13-B• TB11-87	2 43				.19 .25	NO YES			
L 79	1		J13-C• TB11-93	2 29				.19 .25	NO YES			
L 80	1		J13-D• TB11-88	2 43				.19 .25	NO YES			
L 81	1		J13-S• TB11-39	2 31				.19 .25	NO YES			
L 82	1		J13-T• TB11-30	2 39				.19 .25	NO YES			
L 83	1		J13-Q• TB11-38	2 32				.19 .25	NO YES			
L 84	1		J13-R• TB11-36	2 33				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382 | SCALE-NONE | REV LTR A | SHEET 11 OF 16

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 85	2				1.00 .60	.75 .35				1 1	5, 3, 4 3, 5, 4	
L 85A	1		SHLD L85 J13-S	 2				.25 .19	NO NO			
L 85B	1		TB12-31 SHLD L85	24				.25 .25	YES NO			
L 85E			J13-R TB12-33	2 24				.19 .25	NO YES			
L 87	1		TB11-102 XF1-2	46 36				.25 .25	YES YES			
L 88	1		TB12-10 E5	25 51				.25 .25	YES YES			
L 89	11				1.50 6.00	1.25 5.75				2 3	18 14, 5, 15	
L 89B	13		TB11-31 SHLD L89	40A				.25 .25	YES NO			
L 89L			J13-H• K1-4	2 40A				.19 .25	NO YES		19	
L 89R			J13-G• K1-5	2 40A				.19 .25	NO YES		19	
L 89Y			J13-F• TB11-25	2 40A				.19 .25	NO YES			
L 90	11				1.50 6.00	1.25 5.75				2 3	1, 80 14, 5, 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382 | SCALE-NONE | REV LTR A | SHEET 12 OF 16

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 90B	13		TB11-34 SHLD L90	40A				.25 .25	YES NO			
L 90L			J13-Z• K1-8	2 40A				.19 .25	NO YES		19	
L 90R			J13-Y• K1-1	2 40A				.19 .25	NO YES		19	
L 90Y			J13-P• TB11-28	2 40A				.19 .25	NO YES			
L 91	1		J13-N• TB11-28	2 30A				.19 .25	NO YES			
L 92	1		J13-T K1-7	2 40A				.19 .25	NO YES		19	
L 93	1		J13-N K1-3	2 40A				.19 .25	NO YES		19	
L 94	1		TB11-282 TB11-31	60A 30A				.25 .25	YES YES			
L 95	12				1.50 4.00	1.25 3.75				2 3	18 16, 5, 17	
L 95B	13		TB11-34 SHLD L95	30A				.25 .25	YES NO			
L 95L			J13-CC TB11-27	2 30A				.19 .25	NO YES			
L 95R			J13-DD TB11-24	2 30A				.19 .25	NO YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902382 | SCALE-NONE | REV LTR A | SHEET 13 OF 16

MIL 2044 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 96	1		J12-W* TB11-79	1 41				.19 .25	NO YES			
L 97	1		J12-X* TB11-80	1 41				.19 .25	NO YES			
L 98	1		J12-V* TB11-85	1 41				.19 .25	NO YES			
L 99	1		J12-U* TB11-86	1 41				.19 .25	NO YES			
L 100	1		J12-A* TB11-100	1 27				.19 .25	NO YES			
L 101	1		J12-B* TB11-99	1 29				.19 .25	NO YES			
L 102	1		K3-2 TB11-116	40A 46				.25 .25	YES YES		19	
L 103	1		K3-6 TB11-128	40A 24A				.25 .25	YES YES		19	
L 104	1		J13-A XF3-1	2 36				.19 .25	NO YES			
L 105	1		J12-R TB13-2	1 36				.19 .25	NO YES			
L 106	1		J12-S TB13-3	1 36				.19 .25	NO YES			
L 107	1		J12-I* TB13-13	1 36				.19 .25	NO YES			

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
L 108	1		J12-J* TB13-1	1 36				.19 .25	NO YES			
L 109	1		K2-2 TB11-177	40A 50A				.25 .25	YES YES		19	
L 110	1		K2-6 TB11-189	40A 14				.25 .25	YES YES		19	
L 111	1		J12-B TB13-11	1 36				.19 .25	NO YES			
L 112	1		J12-P XF2-1	1 36				.19 .25	NO YES			

MIL 2084 4-63

1902382 A

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD

SECTION A-A

SECTION B-B

SOCKET A

J12

J13

20 SEE NOTES 5 & 13

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		FRACTIONS DECIMALS ANGLES + + + − − −	ACSP PN DRAWN Frank R. Miller 10 FEB 65	WIRING HARNESS L
		DO NOT SCALE THIS DRAWING	CHECKED Hughes 25 FEB 65	
		MATERIAL	APPROVAL Rudd 26 FEB 65	
1901981-011	1901981-011	CONTRACT NAS9-497	APPROVAL M. Waters 2-25-65	CODE IDENT NO. SIZE D 1902382
NEXT ASSY	USED ON		NASA APPROVAL	SCALE FULL SHEET 16 OF 16
APPLICATION			MIT APPROVAL	

APPLICATION		REVISIONS 17840			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902404-011	C	UPGRADED TO CLASS A PER TDRR 17840	24 MAR 65	J J J

REV																								
SHEET																								
REV STATUS	REV																							
OF SHEETS	SHEET	C	C	C	C	C	C	C	C	C	C	C												
		1	2	3	4	5	6	7	8	9	10	11	12											

24 FEB 65

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN [signature] 19 FEB 65 DATE

CHECKED [signature] 24 FEB 65

APPROVAL [signature] 24 FEB 65

APPROVAL [signature] 3/23/65

WIRING HARNESS "B"

NASA APPROVAL [signature] 1965

MIT APPROVAL [signature] 1965

CODE IDENT NO.	SIZE		REV
	A	1902383	C

CONTRACT NAS9-497

SCALE —

SHEET 1 OF 13

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). 12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002023.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER ~~MIL-STD-1130~~ MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 2 OF 12

MIL 2064 4-63

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE B1L AND B1R, B2L AND B2R, ETC.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 3 OF 12

MIL 2064 4-63

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 4 OF 12

MIL 2064 4-63

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902383-001	WIRE-ND1002181, TYPE I, CLASS 1, 20AWG, WHITE - FT. TOTAL LG
	2	1	1902383-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE - FT. TOTAL LG
	3	1	MS3127E24-61SY	(1897056-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	3	1016006-002	SPLICE-REDUCER, CRIMP STYLE
17	5	3	1010490-258	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PZ	(1897055-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	7	1015864-109	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
17	14	1	1015864-107	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
	15	1	MS3127E14-15P	(1897115-150) CONNECTOR - RECEPTACLE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 5 OF 12

MIL 2064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1L	2		J4-BB	1				.22	NO			
			J2-X•	5				.22	NO			
B 1R	2		J4-AA	1				.22	NO			
			J2-W•	5				.22	NO			
B 2L	2		J4-MM	1				.22	NO			
			J2-KK	5				.22	NO			
B 2R	2		J4-NN	1				.22	NO			
			J2-LL	5				.22	NO			
B 3L	2		J4-EE	1				.22	NO			
			J2-MM	5				.22	NO			
B 3R	2		J4-FF	1				.22	NO			
			J2-NN	5				.22	NO			
B 4L	1		J4-E	1				.22	NO			
			J2-E	5				.22	NO			
B 4R	1		J4-F	1				.22	NO			
			K1-7	9				.25	YES		13	
B 4Y	1		J4-D	1				.22	NO			
			J2-D	5				.22	NO			
B 5	1		K1-4	9				.25	YES		13	
			J2-F	5				.22	NO			
B 6	2		K1-1	9				.25	YES		13	
			J2-AA	5				.22	NO			
B 7	2		K1-5	9				.25	YES		13	
			K2-5	9				.25	YES		14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR C	SHEET 6 OF 12

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 8	2		K2-5	9				.25	YES			
			J2-CC	5				.22	NO			
B 9	2		K2-1	9				.25	YES		13	
			J2-BB	5				.22	NO			
B 10L	2		J4-G	1				.22	NO			
			J2-H	5				.22	NO			
B 10R	2		J4-H	1				.22	NO			
			J2-J	5				.22	NO			
B 11L	2		J4-J	1				.22	NO			
			J2-K	5				.22	NO			
B 11R	2		J4-K	1				.22	NO			
			J2-L	5				.22	NO			
B 11Y	2		J4-I•	1				.22	NO			
			J2-Z•	5				.22	NO			
B 12L	2		J4-L	1				.22	NO			
			J2-M	5				.22	NO			
B 12R	2		J4-M	1				.22	NO			
			J2-N	5				.22	NO			
B 13L	2		J4-N	1				.22	NO			
			J2-P	5				.22	NO			
B 13R	2		J4-P	1				.22	NO			
			J2-R	5				.22	NO			
B 14L	2		J4-R	1				.22	NO			
			J2-S	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR C	SHEET 7 OF 12

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 14R	2		J4-S	1				.22	NO			
			J2-T	5				.22	NO			
B 15L	1		J4-U	1				.22	NO			
			J2-V	5				.22	NO			
B 15R	1		J4-V	1				.22	NO			
			K2-7	9				.25	YES		13	
B 15Y	1		J4-T	1				.22	NO			
			J2-U	5				.22	NO			
B 16	1		K2-4	9				.25	YES		13	
			J2-W	5				.22	NO			
B 17L	2		J4-W	1				.22	NO			
			J2-B•	5				.22	NO			
B 17R	2		J4-X	1				.22	NO			
			J2-C•	5				.22	NO			
B 18	1		J4-Y	1				.22	NO			
			~~E1-B~~ E11-B	7				.38	NO			
B 19	1		J4-DD	1				.22	NO			
			~~E1-C~~ E11-B	7				.38	NO			
B 20	1		~~E1-BB~~ E11-BB	7				.38	NO			
			J2-A•	5				.22	NO			
B 21	1		~~E1-CC~~ E11-BB	7				.38	NO			
			J2-C•	5				.22	NO			
B 22L	2		J4-B•	1				.22	NO			
			J2-E•	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR C	SHEET 8 OF 12

MIL 3064 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 22R	2		J4-C•	1				.22	NO			
			J2-F•	5				.22	NO			
B 22Y	2		J4-V•	1				.22	NO			
			J2-Y•	5				.22	NO			
B 23L	2		J4-D•	1				.22	NO			
			J2-G•	5				.22	NO			
B 23R	2		J4-E•	1				.22	NO			
			J2-H•	5				.22	NO			
B 24L	2		J4-G•	1				.22	NO			
			J2-I•	5				.22	NO			
B 24R	2		J4-H•	1				.22	NO			
			J2-J•	5				.22	NO			
B 25L	2		J4-J•	1				.22	NO			
			J2-K•	5				.22	NO			
B 25R	2		J4-K•	1				.22	NO			
			J2-M•	5				.22	NO			
B 26L	2		J4-HH	1				.22	NO			
			~~E2-B~~ E9-B	2				.38	NO			
B 26R	2		J4-JJ	1				.22	NO			
			~~E1-A~~ E10-B	8				.38	NO			
B 27L	2		J4-P•	1				.22	NO			
			~~E2-B~~ E9-B	2				.36	NO			
B 27R	2		J4-Q•	1				.22	NO			
			~~E1-B~~ E10-B	8				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR C	SHEET 9 OF 12

MIL 3064 4-63

WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B	28L	2	J4-R*	1				.22	NO			
			~~E2-B~~ E9-B	2				.38	NO			
B	28R	2	J4-S*	1				.22	NO			
			~~E3-B~~ E10-B	8				.38	NO			
B	29L	2	J4-T*	1				.22	NO			
			~~E2-B~~ E9-B	2				.38	NO			
B	29R	2	J4-U*	1				.22	NO			
			~~E3-B~~ E10-B	8				.38	NO			
B	30L	2	J4-KK	1				.22	NO			
			~~E2-B~~ E9-B	2				.38	NO			
B	30R	2	J4-LL	1				.22	NO			
			~~E3-B~~ E10-B	8				.38	NO			
B	31L	1	~~E2-BB~~ E9-BB	2				.38	NO			
			J2-N*	5				.22	NO			
B	31R	1	~~E3-BB~~ E10-BB	8				.38	NO			
			J2-P*	5				.22	NO			
B	32L	1	J4-W*	1				.22	NO			
			J2-S*	5				.22	NO			
B	32R	1	J4-X*	1				.22	NO			
			J2-T*	5				.22	NO			
B	32Y	1	J4-PP	1				.22	NO			
			~~J2-NN~~ J2-PP	5				.22	NO			
B	33L	1	J4-Y*	1				.22	NO			
			J2-Q*	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR • C	SHEET 10 OF 12

MIL 3064 4-63

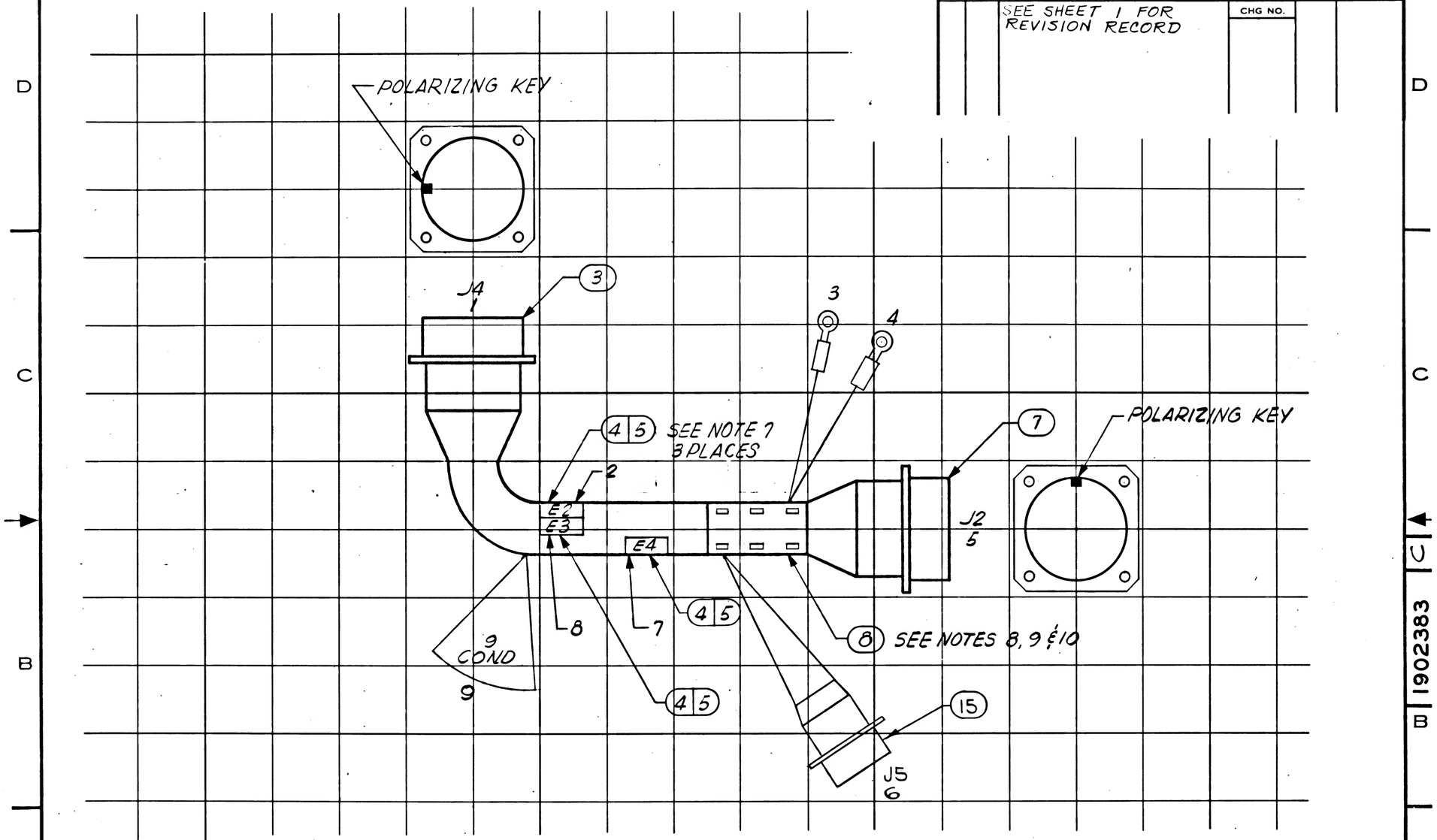
WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B	33R	1	J4-Z*	1				.22	NO			
			J2-R*	5				.22	NO			
B	34	1	J4-CC	1				.22	NO			
			E1-2	3				.25	NO		6	
B	35	2	J5-F	6				.22	NO			
			J2-X	5				.22	NO			
B	36	2	J5-G	6				.22	NO			
			J2-Y	5				.22	NO			
B	37	2	J5-H	6				.22	NO			
			J2-Z	5				.22	NO			
B	38	1	J5-1	6				.22	NO			
			E1-3	4				.25	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR • C	SHEET 11 OF 12

MIL 3064 4-63

REVISIONS					17840
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	+ —	+ —
- —	- —	- —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN

DRAWN D. Drake 12 FEB 65 DATE
CHECKED J. GRIEB 12 FEB 65
APPROVAL L. B. Hurst 24 FEB 65
APPROVAL L. Fuhrman 2/23/65
NASA APPROVAL L. J. Hill MAR 26 1965
MIT APPROVAL W. Wrigley MAR 26 1965

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "B"

CODE IDENT NO. | SIZE C | 1902383

SCALE FULL | SHEET 12 OF 12

MIL 1077C-P

1902383

APPLICATION		REVISIONS 17810			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902404-011 (U)	C	UPGRADED TO CLASS A PER TDRR 17810	24 MAR 65	J JJ / JAC
		D	REVISED PER TDRR 18850	6 MAY 65	Em / CP

REV																					
SHEET																					
REV STATUS	REV																				
OF SHEETS	SHEET																				
		D	C	C	C	D	C	C	C	C	C	C	D								
		1	2	3	4	5	6	7	8	9	10	11	12								

24 FEB 65

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN [signature] 12 FEB 65 DATE
CHECKED [signature] 24 FEB 65
APPROVAL [signature] 24 FEB 65
APPROVAL [signature] 3/23/65

WIRING HARNESS "B"

NASA APPROVAL [signature] MAR 6 1965
MIT APPROVAL [signature] MAR 27 1965

CODE IDENT NO.	SIZE		REV
99974	A	1902383	D

CONTRACT NAS9-497

SCALE —

SHEET 1 OF 12

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). 12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002023.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE B1L AND B1R, B2L AND B2R, ETC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902383-001	WIRE-ND1002181, TYPE I, CLASS 1, 20AWG, WHITE - FEET TOTAL LENGTH
	2	1	1902383-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE - FEET TOTAL LENGTH
	3	1	MS3127E24-61SZ	(1897056-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	3	1016006-002	SPLICE-REDUCER, CRIMP STYLE
17	5	3	1010490-258	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PY	(1897055-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	7	1015864-109	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
17	14	1	1015864-107	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
	15	1	MS3127E14-15P	(1897115-150) CONNECTOR-RECEPTACLE.

WIRING HARNESS B 1902383 C•

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B	1L 2		J4-BB	1				.22	NO			
			J2-K•	5				.22	NO			
B	1R 2		J4-AA	1				.22	NO			
			J2-W•	5				.22	NO			
B	2L 2		J4-MM	1				.22	NO			
			J2-KK	5				.22	NO			
B	2R 2		J4-NN	1				.22	NO			
			J2-LL	5				.22	NO			
B	3L 2		J4-EE	1				.22	NO			
			J2-MM	5				.22	NO			
B	3R 2		J4-FF	1				.22	NO			
			J2-NN	5				.22	NO			
B	4L 1		J4-E	1				.22	NO			
			J2-E	5				.22	NO			
B	4R 1		J4-F	1				.22	NO			
			K1-7	9				.25	YES		13	
B	4Y 1		J4-D	1				.22	NO			
			J2-D	5				.22	NO			
B	5 1		K1-4	9				.25	YES		13	
			J2-F	5				.22	NO			
B	6 2		K1-1	9				.25	YES		13	
			J2-AA	5				.22	NO			
B	7 2		K1-5	9				.25	YES		13	
			K2-5	9				.25	YES		14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383 | SCALE-NONE | REV LTR • C | SHEET 6 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C•

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B	8 2		K2-5	9				.25	YES			
			J2-CC	5				.22	NO			
B	9 2		K2-1	9				.25	YES		13	
			J2-BB	5				.22	NO			
B	10L 2		J4-G	1				.22	NO			
			J2-H	5				.22	NO			
B	10R 2		J4-H	1				.22	NO			
			J2-J	5				.22	NO			
B	11L 2		J4-J	1				.22	NO			
			J2-K	5				.22	NO			
B	11R 2		J4-K	1				.22	NO			
			J2-L	5				.22	NO			
B	11Y 2		J4-I•	1				.22	NO			
			J2-Z•	5				.22	NO			
B	12L 2		J4-L	1				.22	NO			
			J2-M	5				.22	NO			
B	12R 2		J4-M	1				.22	NO			
			J2-N	5				.22	NO			
B	13L 2		J4-N	1				.22	NO			
			J2-P	5				.22	NO			
B	13R 2		J4-P	1				.22	NO			
			J2-R	5				.22	NO			
B	14L 2		J4-R	1				.22	NO			
			J2-S	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383 | SCALE-NONE | REV LTR • C | SHEET 7 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B	14R 2		J4-S	1				.22	NO			
			J2-T	5				.22	NO			
B	15L 1		J4-U	1				.22	NO			
			J2-V	5				.22	NO			
B	15R 1		J4-V	1				.22	NO			
			K2-7	9				.25	YES		13	
B	15Y 1		J4-T	1				.22	NO			
			J2-U	5				.22	NO			
B	16 1		K2-4	9				.25	YES		13	
			J2-W	5				.22	NO			
B	17L 2		J4-W	1				.22	NO			
			J2-B•	5				.22	NO			
B	17R 2		J4-X	1				.22	NO			
			J2-C•	5				.22	NO			
B	18 1		J4-Y	1				.22	NO			
			E11-B	7				.38	NO			
B	19 1		J4-DD	1				.22	NO			
			E11-B	7				.38	NO			
B	20 1		E11-BB	7				.38	NO			
			J2-A•	5				.22	NO			
B	21 1		E11-BB	7				.38	NO			
			J2-D•	5				.22	NO			
B	22L 2		J4-B•	1				.22	NO			
			J2-E•	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383 | SCALE-NONE | REV LTR C | SHEET 8 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B	22R 2		J4-C•	1				.22	NO			
			J2-F•	5				.22	NO			
B	22Y 2		J4-V•	1				.22	NO			
			J2-Y•	5				.22	NO			
B	23L 2		J4-D•	1				.22	NO			
			J2-G•	5				.22	NO			
B	23R 2		J4-E•	1				.22	NO			
			J2-H•	5				.22	NO			
B	24L 2		J4-G•	1				.22	NO			
			J2-I•	5				.22	NO			
B	24R 2		J4-H•	1				.22	NO			
			J2-J•	5				.22	NO			
B	25L 2		J4-J•	1				.22	NO			
			J2-K•	5				.22	NO			
B	25R 2		J4-K•	1				.22	NO			
			J2-M•	5				.22	NO			
B	26L 2		J4-MM	1				.22	NO			
			E9-B	2				.38	NO			
B	26R 2		J4-JJ	1				.22	NO			
			E10-B	8				.38	NO			
B	27L 2		J4-P•	1				.22	NO			
			E9-B	2				.38	NO			
B	27R 2		J4-Q•	1				.22	NO			
			E10-B	8				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383 | SCALE-NONE | REV LTR C | SHEET 9 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 28L	2		J4-R• E9-B	1 2				.22 .38	NO NO			
B 28R	2		J4-S• E10-B	1 8				.22 .38	NO NO			
B 29L	2		J4-T• E9-B	1 2				.22 .38	NO NO			
B 29R	2		J4-U• E10-B	1 8				.22 .38	NO NO			
B 30L	2		J4-KK E9-B	1 2				.22 .38	NO NO			
B 30R	2		J4-LL E10-B	1 8				.22 .38	NO NO			
B 31L	1		E9-BB J2-N•	2 5				.38 .22	NO NO			
B 31R	1		E10-BB J2-P•	8 5				.38 .22	NO NO			
B 32L	1		J4-W• J2-S•	1 5				.22 .22	NO NO			
B 32R	1		J4-X• J2-T•	1 5				.22 .22	NO NO			
B 32Y	1		J4-PP J2-PP	1 5				.22 .22	NO NO			
B 33L	1		J4-Y• J2-Q•	1 5				.22 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 10 OF 12

MIL 2084 4-63

WIRING HARNESS B 1902383 C

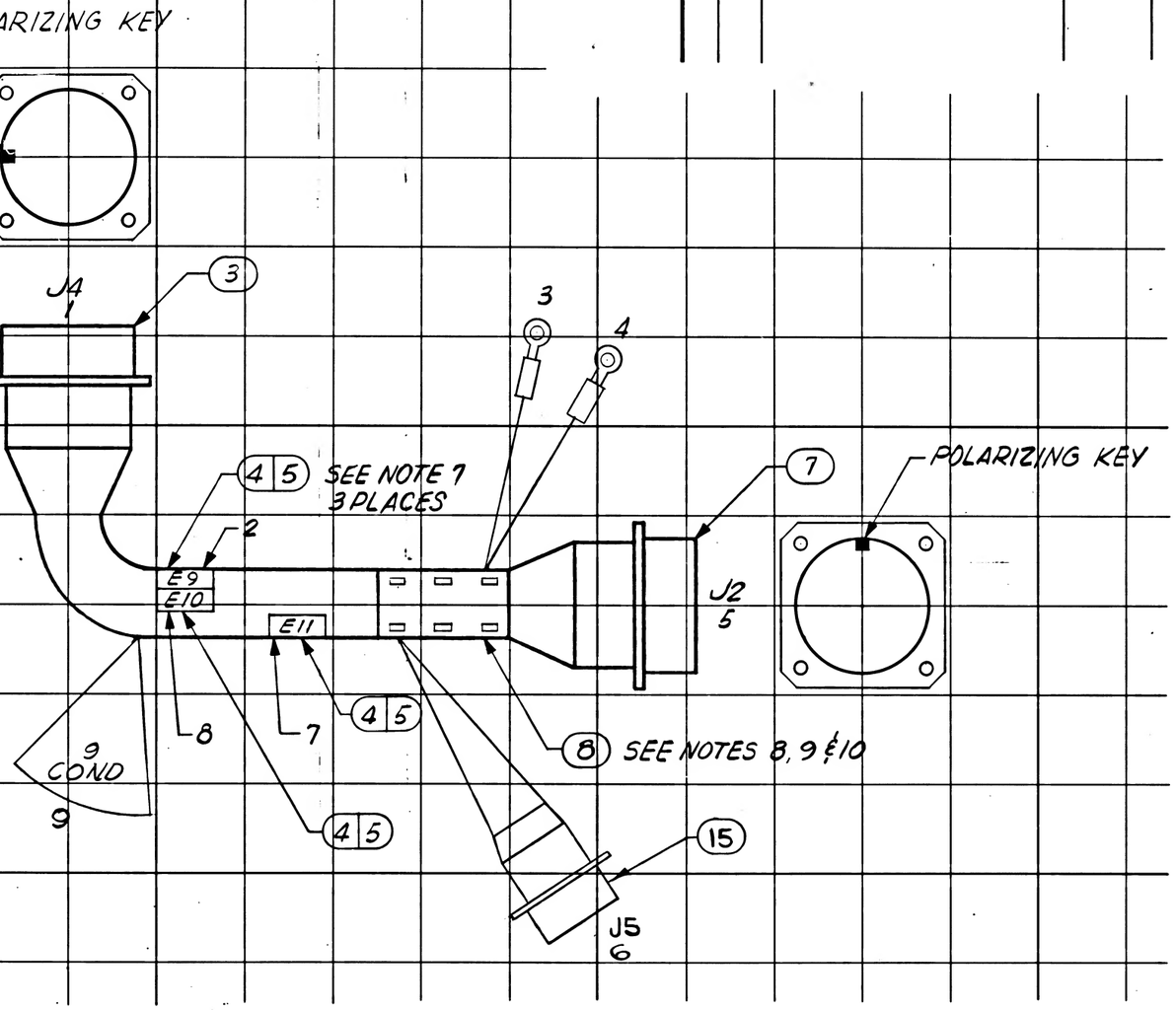
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 33R	1		J4-Z• J2-R•	1 5				.22 .22	NO NO			
B 34	1		J4-CC E1-2	1 3				.22 .25	NO NO		6	
B 35	2		J5-F J2-X	6 5				.22 .22	NO NO			
B 36	2		J5-G J2-Y	6 5				.22 .22	NO NO			
B 37	2		J5-H J2-Z	6 5				.22 .22	NO NO			
B 38	1		J5-A E1-3	6 4				.22 .25	NO NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 11 OF 12

MIL 2084 4-63

1902383

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
M		SEE SHEET 1 FOR REVISION RECORD			



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ___ DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN L. Jakes 12 FEB 65 DATE
CHECKED J. GRIEB 12 FEB 65
APPROVAL L. B. West 24 FEB 65
APPROVAL C. Gilman 2/22/65
NASA APPROVAL MAR 26 1965
MIT APPROVAL W. Wagler

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "B"

CODE IDENT NO. 99974 | SIZE C | 1902383
SCALE FULL | SHEET 12 OF 12

MIL 1077C-F

1902383

CONTRACT NAS9-497	SCALE —	SHEET 1 OF 12			
MIT APPROVAL	CODE IDENT NO. 99974	SIZE A	1902383	REV E	
NASA APPROVAL					
APPROVAL					
APPROVAL					
CHECKED					
DRAWN	DATE				
ACSP PN					
AC SPARK PLUG DIVISION , GMC MILWAUKEE, WISCONSIN					
MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
WIRING HARNESS "B"					

REV	SHEET	REV STATUS	OF SHEETS	SHEET
		REV		

	1	2	3	4	5	6	7	8	9	10	11	12
	E	C	C	C	D	C	C	C	C	C	C	E

APPLICATION	
NEXT ASSY	USED ON
1902404-011	1902404-011

REVISIONS				
SYM	DESCRIPTION	DATE	APPROVAL	
C	UPGRADED TO CLASS A PER TDRR 17810	24 MAR 65	JJJ JAC	
D	REVISED PER TDRR 18850	6 MAY 65	EMP CP	
E	REVISED PER TDRR 20923	27 JUL 65	JWP EP	

17810

24FEB65

(A) (B) (C) (D) (E)

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
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7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). 12 INCH HIGH CHARACTERS, COLOR WHITE.
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11	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE B1L AND B1R, B2L AND B2R, ETC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902383-001	WIRE-ND1002181, TYPE I, CLASS 1, 20AWG, WHITE - FEET TOTAL LENGTH
	2	1	1902383-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE - FEET TOTAL LENGTH
	3	1	MS3127E24-61SZ	(1897056-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	3	1016006-002	SPLICE-REDUCER, CRIMP STYLE
17	5	3	1010490-258	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PY	(1897055-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	7	1015864-109	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
17	14	1	1015864-107	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
	15	1	MS3127E14-15P	(1897115-150) CONNECTOR-RECEPTACLE.

WIRING HARNESS B — 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1L	2		J4-BB	1				.22	NO			
			J2-X•	5				.22	NO			
B 1R	2		J4-AA	1				.22	NO			
			J2-W•	5				.22	NO			
B 2L	2		J4-MM	1				.22	NO			
			J2-KK	5				.22	NO			
B 2R	2		J4-NN	1				.22	NO			
			J2-LL	5				.22	NO			
B 3L	2		J4-FF	1				.22	NO			
			J2-MM	5				.22	NO			
B 3R	2		J4-FF	1				.22	NO			
			J2-NN	5				.22	NO			
B 4L	1		J4-E	1				.22	NO			
			J2-E	5				.22	NO			
B 4R	1		J4-F	1				.22	NO			
			K1-7	9				.25	YES		13	
B 4Y	1		J4-D	1				.22	NO			
			J2-D	5				.22	NO			
B 5	1		K1-4	9				.25	YES		13	
			J2-F	5				.22	NO			
B 6	2		K1-1	9				.25	YES		13	
			J2-AA	5				.22	NO			
B 7	2		K1-5	9				.25	YES		13	
			K2-5	9				.25	YES		14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR • C	SHEET 6 OF 12

MIL 2084 4-83

WIRING HARNESS B — 1902383 C•

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 8	2		K2-5	9				.25	YES			
			J2-CC	5				.22	NO			
B 9	2		K2-1	9				.25	YES		13	
			J2-BB	5				.22	NO			
B 10L	2		J4-G	1				.22	NO			
			J2-H	5				.22	NO			
B 10R	2		J4-H	1				.22	NO			
			J2-J	5				.22	NO			
B 11L	2		J4-J	1				.22	NO			
			J2-K	5				.22	NO			
B 11R	2		J4-K	1				.22	NO			
			J2-L	5				.22	NO			
B 11Y	2		J4-I•	1				.22	NO			
			J2-Z•	5				.22	NO			
B 12L	2		J4-L	1				.22	NO			
			J2-M	5				.22	NO			
B 12R	2		J4-M	1				.22	NO			
			J2-N	5				.22	NO			
B 13L	2		J4-N	1				.22	NO			
			J2-P	5				.22	NO			
B 13R	2		J4-P	1				.22	NO			
			J2-R	5				.22	NO			
B 14L	2		J4-R	1				.22	NO			
			J2-S	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR • C	SHEET 7 OF 12

MIL 2084 4-83

WIRING HARNESS B — 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 14R	2		J4-S	1				.22	NO			
			J2-T	5				.22	NO			
B 15L	1		J4-U	1				.22	NO			
			J2-V	5				.22	NO			
B 15R	1		J4-V	1				.22	NO			
			K2-7	9				.25	YES		13	
B 15Y	1		J4-T	1				.22	NO			
			J2-U	5				.22	NO			
B 16	1		K2-4	9				.25	YES		13	
			J2-W	5				.22	NO			
B 17L	2		J4-W	1				.22	NO			
			J2-B•	5				.22	NO			
B 17R	2		J4-X	1				.22	NO			
			J2-C•	5				.22	NO			
B 18	1		J4-Y	1				.22	NO			
			E11-B	7				.38	NO			
B 19	1		J4-DD	1				.22	NO			
			E11-B	7				.38	NO			
B 20	1		E11-BB	7				.38	NO			
			J2-A•	5				.22	NO			
B 21	1		E11-BB	7				.38	NO			
			J2-D•	5				.22	NO			
B 22L	2		J4-B•	1				.22	NO			
			J2-E•	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR C	SHEET 8 OF 12

MIL 2084 4-83

WIRING HARNESS B — 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 22R	2		J4-C•	1				.22	NO			
			J2-F•	5				.22	NO			
B 22Y	2		J4-V•	1				.22	NO			
			J2-Y•	5				.22	NO			
B 23L	2		J4-D•	1				.22	NO			
			J2-G•	5				.22	NO			
B 23R	2		J4-E•	1				.22	NO			
			J2-H•	5				.22	NO			
B 24L	2		J4-G•	1				.22	NO			
			J2-I•	5				.22	NO			
B 24R	2		J4-H•	1				.22	NO			
			J2-J•	5				.22	NO			
B 25L	2		J4-J•	1				.22	NO			
			J2-K•	5				.22	NO			
B 25R	2		J4-K•	1				.22	NO			
			J2-M•	5				.22	NO			
B 26L	2		J4-HH	1				.22	NO			
			E9-B	2				.38	NO			
B 26R	2		J4-JJ	1				.22	NO			
			E10-B	8				.38	NO			
B 27L	2		J4-P•	1				.22	NO			
			E9-B	2				.38	NO			
B 27R	2		J4-Q•	1				.22	NO			
			E10-B	8				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE - NONE	REV LTR C	SHEET 9 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 28L	2		J4-R*	1				.22	NO			
			E9-B	2				.38	NO			
B 28R	2		J4-S*	1				.22	NO			
			E10-B	8				.38	NO			
B 29L	2		J4-T*	1				.22	NO			
			E9-B	2				.38	NO			
B 29R	2		J4-U*	1				.22	NO			
			E10-B	8				.38	NO			
B 30L	2		J4-KK	1				.22	NO			
			E9-B	2				.38	NO			
B 30R	2		J4-LL	1				.22	NO			
			E10-B	8				.38	NO			
B 31L	1		E9-BB	2				.38	NO			
			J2-N*	5				.22	NO			
B 31R	1		E10-BB	8				.38	NO			
			J2-P*	5				.22	NO			
B 32L	1		J4-W*	1				.22	NO			
			J2-S*	5				.22	NO			
B 32R	1		J4-X*	1				.22	NO			
			J2-T*	5				.22	NO			
B 32Y	1		J4-PP	1				.22	NO			
			J2-PP	5				.22	NO			
B 33L	1		J4-Y*	1				.22	NO			
			J2-Q*	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383 | SCALE-NONE | REV LTR C | SHEET 10 OF 12

MIL-1784 4-83

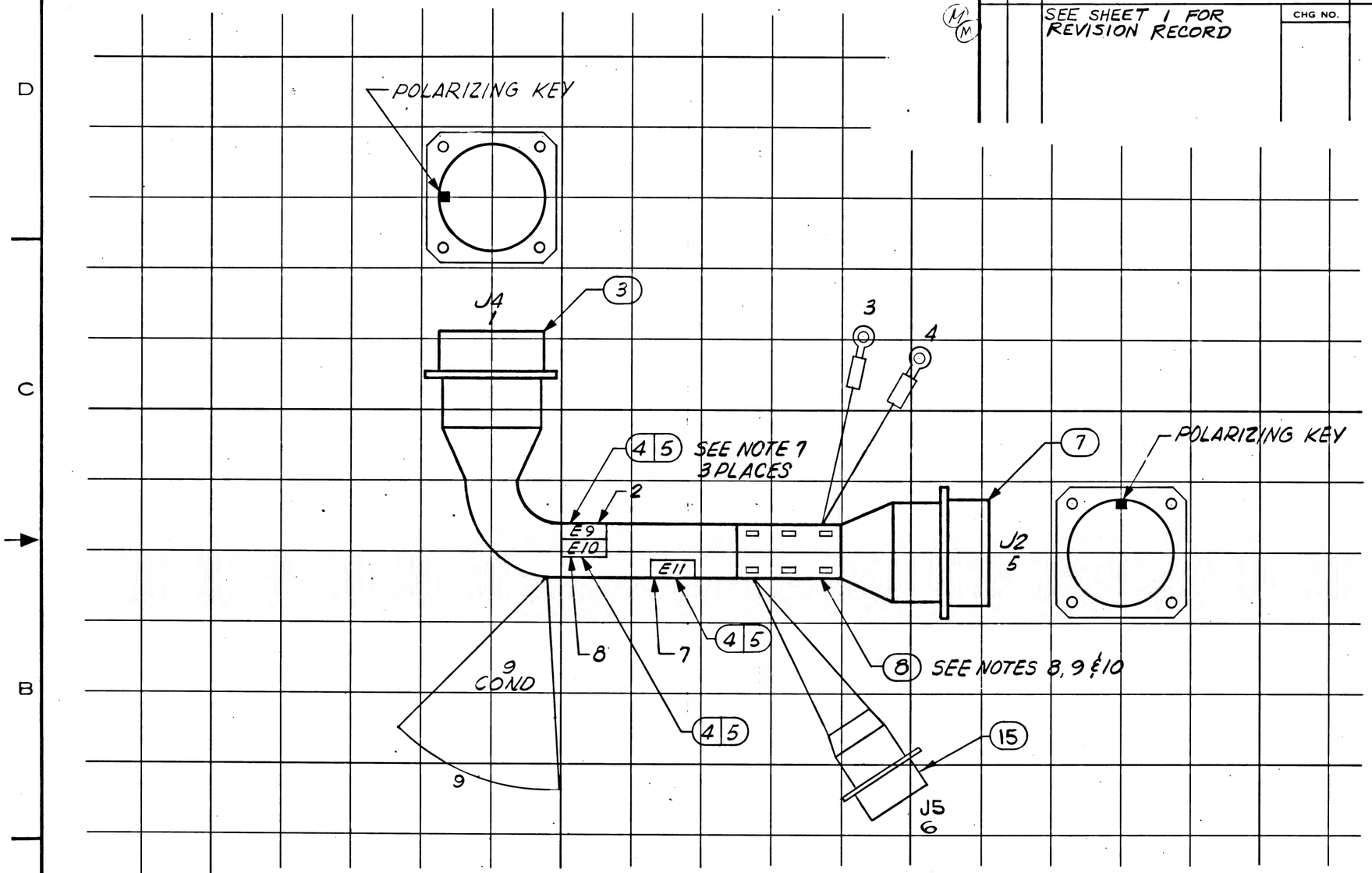
WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 33R	1		J4-Z*	1				.22	NO			
			J2-R*	5				.22	NO			
B 34	1		J4-CC	1				.22	NO			
			E1-2	3				.25	NO		6	
B 35	2		J5-F	6				.22	NO			
			J2-X	5				.22	NO			
B 36	2		J5-G	6				.22	NO			
			J2-Y	5				.22	NO			
B 37	2		J5-H	6				.22	NO			
			J2-Z	5				.22	NO			
B 38	1		J5-A	6				.22	NO			
			E1-3	4				.25	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383 | SCALE-NONE | REV LTR C | SHEET 11 OF 12

MIL-1784 4-83

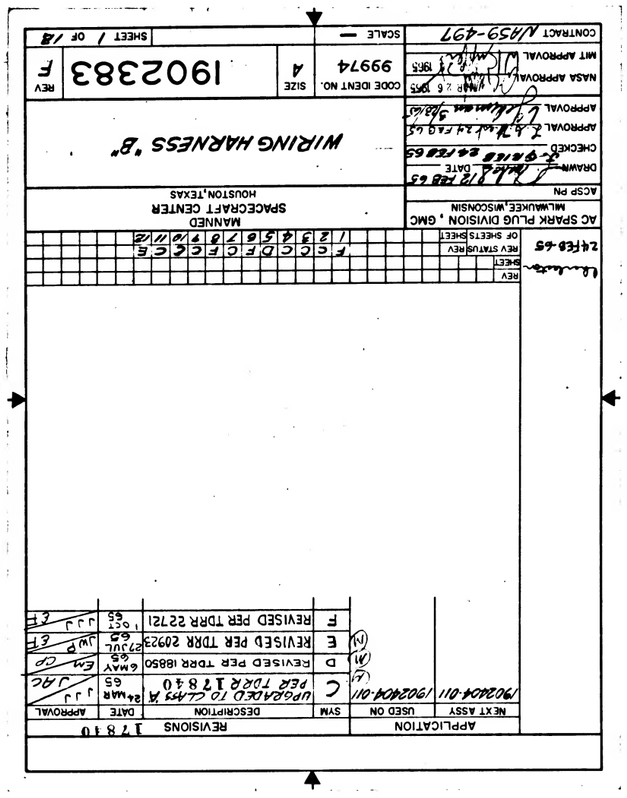
REVISIONS				17840
SYM	ZONE	DESCRIPTION	DATE	APPD.
M M		SEE SHEET 1 FOR REVISION RECORD — CHG NO.		



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING MATERIAL —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN L. Drahos 12 FEB 65 DATE CHECKED J. GRIEB 12 FEB 65 APPROVAL L. S. Wurst 24 FEB 65 APPROVAL [illegible] 3/22/65 NASA APPROVAL [illegible] MAR 26 1965 MIT APPROVAL [illegible]	MANNED SPACECRAFT CENTER HOUSTON, TEXAS WIRING HARNESS "B" CODE IDENT NO. 99974 SIZE C 1902383 SCALE FULL SHEET 12 OF 12
1902404-011 NEXT ASSY	1902404-011 USED ON			
APPLICATION		CONTRACT NAS9-497		

MIL 1077C-P

1902383


WIRING HARNESS "B"
1902383
F
SIZE A
CODE IDENT NO. 99974
SCALE —
SHEET 1 OF 18
CONTRACT NAS9-497
NASA APPROVAL
MFT APPROVAL
APPROVAL
APPROVAL
CHECKED
DRAWN
DATE
ACSP PN
AC SPARK PLUG DIVISION , GMC
MILWAUKEE,WISCONSIN
MANNED
SPACECRAFT CENTER
HOUSTON,TEXAS
REVISIONS
17840
DESCRIPTION
DATE
APPROVAL
UPGRADED TO CLASS A PER TDRR 17840
REVISED PER TDRR 18850
REVISED PER TDRR 20923
REVISED PER TDRR 22721
APPLICATION
USED ON
NEXT ASSY
1902404-011
REV STATUS REV
OF SHEETS SHEET
24FEB65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). 12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002023.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE B1L AND B1R, B2L AND B2R, ETC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902383-001	WIRE-ND1002181, TYPE I, CLASS 1, 20AWG, WHITE - FEET TOTAL LENGTH
	2	1	1902383-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE - FEET TOTAL LENGTH
	3	1	MS3127E24-61SZ	(1897056-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	3	1016006-002	SPLICE-REDUCER, CRIMP STYLE
17	5	3	1010490-258	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PY	(1897055-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	7	1015864-109	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
17	14	1	1015864-107	INSULATION - SLEEVING, ELECTRICAL (CLEAR)
	15	1	MS3127E14-15P	(1897115-150) CONNECTOR-RECEPTACLE.

WIRING HARNESS B 1902383 F •

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1L	2		J4-BB	1				.22	NO			
			J2-X•	5				.22	NO			
B 1R	2		J4-AA	1				.22	NO			
			J2-W•	5				.22	NO			
B 2L	2		J4-MM	1				.22	NO			
			J2-KK	5				.22	NO			
B 2R	2		J4-NN	1				.22	NO			
			J2-LL	5				.22	NO			
B 3L	2		J4-EE	1				.22	NO			
			J2-MM	5				.22	NO			
B 3R	2		J4-FF	1				.22	NO			
			J2-NN	5				.22	NO			
B 4L	1		J4-E	1				.22	NO			
			J2-E	5				.22	NO			
B 4R	1		J4-F	1				.22	NO			
			K1-~~B~~6	9				.25	YES		13	
B 4Y	1		J4-D	1				.22	NO			
			J2-D	5				.22	NO			
B 5	1		K1-4	9				.25	YES		13	
			J2-F	5				.22	NO			
B 6	2		K1-1	9				.25	YES		13	
			J2-AA	5				.22	NO			
B 7	2		K1-5	9				.25	YES		13	
			K2-5	9				.25	YES		14	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR • F	SHEET 6 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C •

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 8	2		K2-5	9				.25	YES			
			J2-CC	5				.22	NO			
B 9	2		K2-1	9				.25	YES		13	
			J2-BB	5				.22	NO			
B 10L	2		J4-G	1				.22	NO			
			J2-H	5				.22	NO			
B 10R	2		J4-H	1				.22	NO			
			J2-J	5				.22	NO			
B 11L	2		J4-J	1				.22	NO			
			J2-K	5				.22	NO			
B 11R	2		J4-K	1				.22	NO			
			J2-L	5				.22	NO			
B 11Y	2		J4-I•	1				.22	NO			
			J2-Z•	5				.22	NO			
B 12L	2		J4-L	1				.22	NO			
			J2-M	5				.22	NO			
B 12R	2		J4-M	1				.22	NO			
			J2-N	5				.22	NO			
B 13L	2		J4-N	1				.22	NO			
			J2-P	5				.22	NO			
B 13R	2		J4-P	1				.22	NO			
			J2-R	5				.22	NO			
B 14L	2		J4-R	1				.22	NO			
			J2-S	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR • C	SHEET 7 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 F •

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 14R	2		J4-S	1				.22	NO			
			J2-T	5				.22	NO			
B 15L	1		J4-U	1				.22	NO			
			J2-V	5				.22	NO			
B 15R	1		J4-V	1				.22	NO			
			~~K2-7~~ K2-6	9				.25	YES		13	
B 15Y	1		J4-T	1				.22	NO			
			J2-U	5				.22	NO			
B 16	1		K2-4	9				.25	YES		13	
			J2-W	5				.22	NO			
B 17L	2		J4-W	1				.22	NO			
			J2-B•	5				.22	NO			
B 17R	2		J4-X	1				.22	NO			
			J2-C•	5				.22	NO			
B 18	1		J4-Y	1				.22	NO			
			E11-B	7				.38	NO			
B 19	1		J4-DD	1				.22	NO			
			E11-B	7				.38	NO			
B 20	1		E11-BB	7				.38	NO			
			J2-A•	5				.22	NO			
B 21	1		E11-BB	7				.38	NO			
			J2-D•	5				.22	NO			
B 22L	2		J4-B•	1				.22	NO			
			J2-E•	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR F ~~B~~	SHEET 8 OF 12

MIL 2084 4-83

WIRING HARNESS B 1902383 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 22R	2		J4-C•	1				.22	NO			
			J2-F•	5				.22	NO			
B 22Y	2		J4-V•	1				.22	NO			
			J2-Y•	5				.22	NO			
B 23L	2		J4-D•	1				.22	NO			
			J2-G•	5				.22	NO			
B 23R	2		J4-E•	1				.22	NO			
			J2-H•	5				.22	NO			
B 24L	2		J4-G•	1				.22	NO			
			J2-I•	5				.22	NO			
B 24R	2		J4-H•	1				.22	NO			
			J2-J•	5				.22	NO			
B 25L	2		J4-J•	1				.22	NO			
			J2-K•	5				.22	NO			
B 25R	2		J4-K•	1				.22	NO			
			J2-M•	5				.22	NO			
B 26L	2		J4-HH	1				.22	NO			
			E9-B	2				.38	NO			
B 26R	2		J4-JJ	1				.22	NO			
			E10-B	8				.38	NO			
B 27L	2		J4-P•	1				.22	NO			
			E9-B	2				.38	NO			
B 27R	2		J4-Q•	1				.22	NO			
			E10-B	8				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902383
SCALE-NONE	REV LTR C	SHEET 9 OF 12

MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 28L	2		J4-R•	1				.22	NO			
			E9-B	2				.38	NO			
B 28R	2		J4-S•	1				.22	NO			
			E10-B	8				.38	NO			
B 29L	2		J4-T•	1				.22	NO			
			E9-B	2				.38	NO			
B 29R	2		J4-U•	1				.22	NO			
			E10-B	8				.38	NO			
B 30L	2		J4-KK	1				.22	NO			
			E9-B	2				.38	NO			
B 30R	2		J4-LL	1				.22	NO			
			E10-B	8				.38	NO			
B 31L	1		E9-BB	2				.38	NO			
			J2-N•	5				.22	NO			
B 31R	1		E10-BB	8				.38	NO			
			J2-P•	5				.22	NO			
B 32L	1		J4-W•	1				.22	NO			
			J2-S•	5				.22	NO			
B 32R	1		J4-X•	1				.22	NO			
			J2-T•	5				.22	NO			
B 32Y	1		J4-PP	1				.22	NO			
			J2-PP	5				.22	NO			
B 33L	1		J4-Y•	1				.22	NO			
			J2-Q•	5				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383
SCALE-NONE | REV LTR C | SHEET 10 OF 12

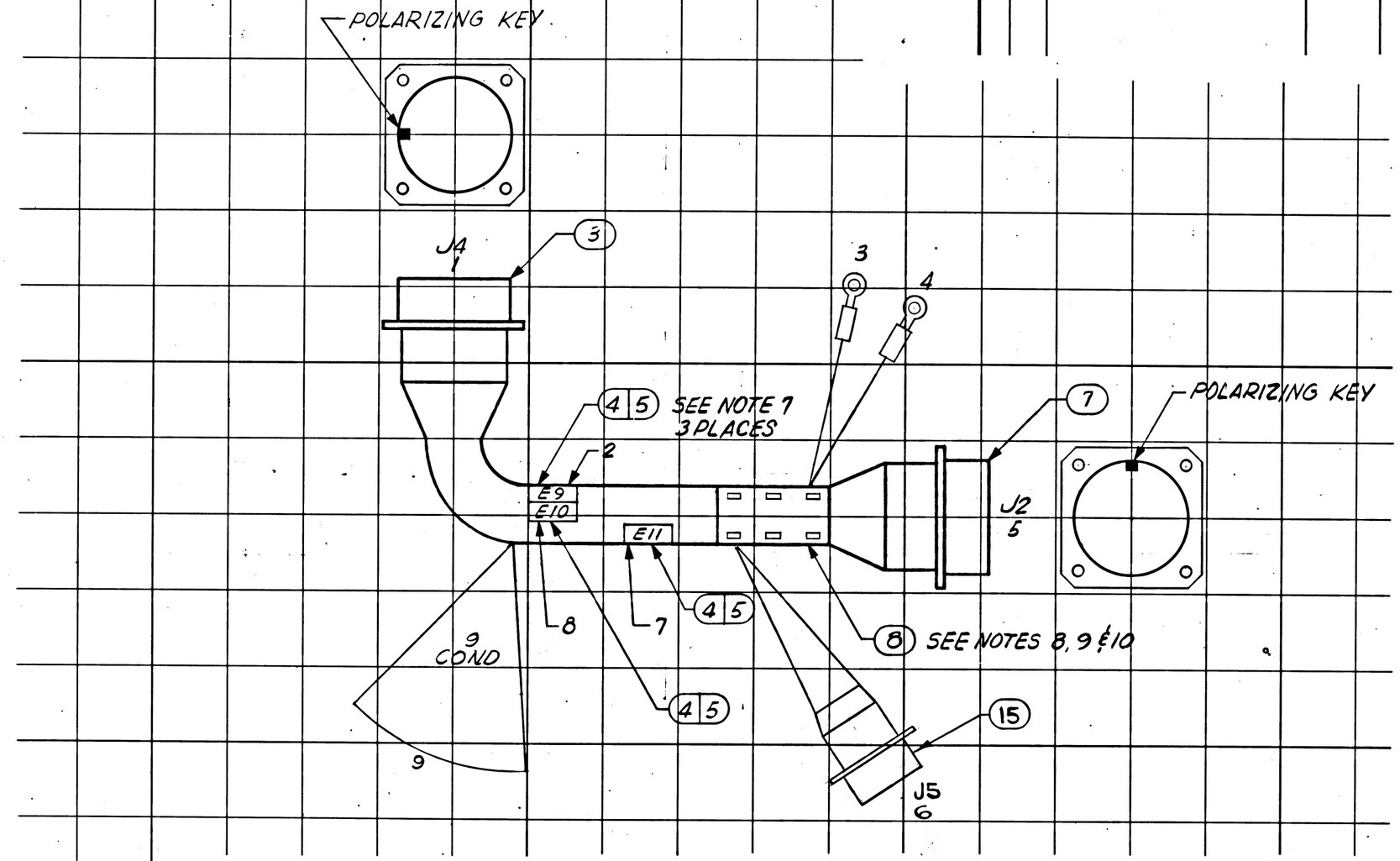
MIL 2084 4-83

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 33R	1		J4-Z•	1				.22	NO			
			J2-R•	5				.22	NO			
B 34	1		J4-CC	1				.22	NO			
			E1-2	3				.25	NO		6	
B 35	2		J5-F	6				.22	NO			
			J2-X	5				.22	NO			
B 36	2		J5-G	6				.22	NO			
			J2-Y	5				.22	NO			
B 37	2		J5-H	6				.22	NO			
			J2-Z	5				.22	NO			
B 38	1		J5-A	6				.22	NO			
			E1-3	4				.25	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902383
SCALE-NONE | REV LTR C | SHEET 11 OF 12

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REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD — CHG NO.		



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ___ DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN

DRAWN L. Drake 12 FEB 65 DATE
CHECKED J. GRIEB 12 FEB 65
APPROVAL L. B. West 24 FEB 65
APPROVAL G. Gilman 3/22/65
NASA APPROVAL C. G. Ward MAR 26 1965
MIT APPROVAL W. Hoffer MAR 26 1965

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "B"

CODE IDENT NO. 99974 | SIZE C | 1902383
SCALE FULL | SHEET 12 OF 12

MIL 1077C-P

1902383

APPLICATION		REVISIONS 17846			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902301-011	A	UPGRADED TO CLASS 'A' PER TDRR 17846	22 MAR -65	

REV																																	
SHEET																																	
REV STATUS	REV			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
OF SHEETS	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17													

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
ACSP PN	
DRAWN Dodd 8:12 AM 65 DATE	RUNNING LIST - JUNCTION BOX ASSEMBLY, TRACKER
CHECKED Jacobs 19 MAR 65	
APPROVAL K. G. Hunt 19 MAR 65	
APPROVAL G. Schuman 3/23/65	
NASA APPROVAL	CODE IDENT NO. / SIZE A / 1902384 / REV A
MIT APPROVAL	
CONTRACT NAS9-497	SCALE — / SHEET 1 OF 17

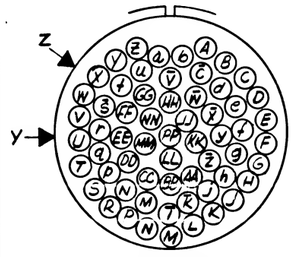


FIGURE 1

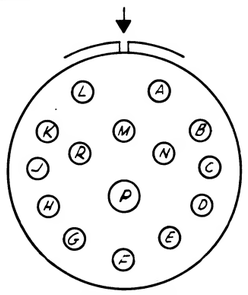


FIGURE 2

INSERT ARR	INSERT POSITIONS IN DEGREES		
	Y	Z	
-61	270°	324°	

INSERT ARR	INSERT POSITIONS IN DEGREES	
	NORMAL	
-15	0°	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384 SHEET 2 OF 17

B BB

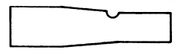


FIGURE 3

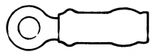


FIGURE 4

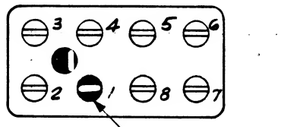


FIGURE 5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384 SHEET 3 OF 17

PENNANT NOTE	GENERAL NOTES
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN -- PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	A LETTER WITH AN ASTERISK, INDICATES A LOWER CASE LETTER.
5	WIRING END OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT-FACE OF PIN CONNECTORS SHOWN, SOCKET CONNECTORS OPPOSITE.
6	UNLESS OTHERWISE SPECIFIED, ALL CONDUCTORS ARE WHITE.
7	DRAWINGS FOR REFERENCE --- 1902404-011 JUNCTION BOX ASSEMBLY, TRACKER 1902385 WIRING HARNESS A 1902383 WIRING HARNESS B

FROM	TO	COND NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
	E 1 TERMINAL-LUG, CRIMP STYLE 1015902-49 FIGURE 4				
E 1-2	J 4-CC	B 34	(1) CHASSIS GROUND		
E 1-3	J 5-A	B 38	(1) CHASSIS GROUND		
E 1-6	J 3-Q*	A 25	(1) CHASSIS GROUND		
E 1-7	J 3-PP	A 26	(1) CHASSIS GROUND		
	E 2-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 2-B	J 3-X	A 19R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
E 2-B	J 3-Z	A 20R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
	E 2-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 2-BB	J 1-I*	A 21R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
	E 3-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 3-B	J 3-S	A 22L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
E 3-B	J 3-U	A 23L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
	E 3-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 3-BB	J 1-J*	A 24L	(4) 800 CPS 28 V 5 PCT LO OPTICS		

FROM	TO	COND NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
	E 4-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 4-B	J 3-T	A 22R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
E 4-B	J 3-V	A 23R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
	E 4-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 4-BB	J 1-K*	A 24R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
	E 5-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 5-B	J 3-JJ	A 27L	(8) 400 CPS VARIABLE ILL PWR		
E 5-B	J 3-LL	A 28L	(8) 400 CPS VARIABLE ILL PWR		
	E 5-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 5-BB	J 1-M*	A 29L	(8) 400 CPS VARIABLE ILL PWR		
	E 6-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 6-B	J 3-KK	A 27R	(9) 400 CPS LO		
E 6-B	J 3-MM	A 28R	(9) 400 CPS LO		

FROM	TO	COND NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
	E 6-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 6-BB	J 1-N*	A 29R	(9) 400 CPS LO		
	E 7-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 7-B	J 3-P*	A 16	(10) 0 VDC OPTICS		
E 7-B	J 1-DD	A 31	(10) 0 VDC OPTICS		
E 7-B	J 3-A*	A 33	(10) 0 VDC OPTICS		
	E 7-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 7-BB	J 1-EE	A 30	(10) 0 VDC OPTICS		
	E 8-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 8-B	J 3-W	A 19L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
E 8-B	J 3-Y	A 20L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
	E 8-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 8-BB	J 1-H*	A 21L	(11) 800 CPS 28 V 1 PCT HI OPTICS		

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
	E 9-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-B	J 4-HH	B 26L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-P•	B 27L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-R•	B 28L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-T•	B 29L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-KK	B 30L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
	E 9-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-BB	J 2-N•	B 31L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
	E10-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-B	J 4-JJ	B 26R	(5) 800 CPS 28 V 1 PCT LO CPTICS		
E10-B	J 4-Q•	B 27R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-S•	B 28R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-U•	B 29R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-LL	B 30R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
	E10-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-BB	J 2-P•	B 31R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
	E11-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-Y	B 18	(7) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902384 | SCALE-NONE | REV LTR A• | SHEET 8 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) E11-B			SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-DD	B 19	(7) 0 VDC OPTICS		
	E11-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-BB	J 2-A•	B 20	(7) 0 VDC OPTICS		
E11-BB	J 2-D•	B 21	(7) 0 VDC OPTICS		
	J 1		CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(18970S5-613) FIGURE 1		
J 1-AA	J 3-V•	A 5L	(12) TRACKER PREAMP OUTPUT BUFF HI		
J 1-B•	J 3-D•	A 17L	(13) SCT SHAFT TACH HI		
J 1-BB	J 3-W•	A 5R	(14) TRACKER PREAMP OUTPUT BUFF LO		
J 1-C•	J 3-F•	A 17R	(15) SCT SHAFT TACH LO		
J 1-CC	J 3-EE	A 6	(16) +28 VDC OPTICS TRACKER PWR		
J 1-D	J 3-D	A 7Y	(17) SCT TRUNNION MOTOT PH 1		
J 1-D•	J 3-H•	A 18L	(18) SCT SHAFT 1X RSLVR S2		
J 1-DD	E 7-B	A 31	(10) 0 VDC OPTICS		
J 1-E	J 3-E	A 7R	(19) SCT TRUNNION MOTOR PH 2		
J 1-E•	J 3-I•	A 18R	(20) SCT SHAFT 1X RSLVR S4		
J 1-EE	E 7-BB	A 30	(10) 0 VDC OPTICS		
J 1-F	J 3-F	A 7L	(21) 0 VDC OPTICS		
J 1-F•	J 3-G•	A 18Y	(22) SHIELD		
J 1-G	J 3-K	A 8L	(23) SCT TRUNNION 1X RSLVR P2		
J 1-H	J 3-L	A 8R	(24) SCT TRUNNION 1X RSLVR P4		
J 1-H•	E 8-BB	A 21L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
J 1-I•	E 2-BB	A 21R	(2) 80C CPS 28 V 1 PCT LO CPTICS		
J 1-J	J 3-M	A 9L	(25) SCT TRUNNION 1X RSLVR P3		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902384 | SCALE-NONE | REV LTR A• | SHEET 9 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 1			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1		
J 1-J•	E 3-BB	A 24L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
J 1-K	J 3-N	A 9R	(26) SCT TRUNNION 1X RSLVR P1		
J 1-K•	E 4-BB	A 24R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
J 1-L	J 3-P	A 10L	(27) SCT TRUNNION 1X RSLVR S2		
J 1-M	J 3-R	A 10R	(28) SCT TRUNNION 1X RSLVR S4		
J 1-M•	E 5-BB	A 29L	(8) 400 CPS VARIABLE ILL PWR		
J 1-N•	E 6-BB	A 29R	(9) 400 CPS LO		
J 1-P	J 3-M•	A 10Y	(29) SHIELD		
J 1-P•	J 3-CC	A 1L	(30) TRACKER X DRIVE BUFF HI		
J 1-PP	J 3-NN	A 32	(31) 400 CPS SHIELD GROUND		
J 1-Q•	J 3-DD	A 1R	(32) TRACKER X DRIVE BUFF LO		
J 1-R	J 3-B•	A 11L	(33) SCT TRUNNION TACH HI		
J 1-R•	J 3-T•	A 2L	(34) TRACKER X ERROR HI		
J 1-S	J 3-C•	A 11R	(35) SCT TRUNNION TACH LO		
J 1-S•	J 3-U•	A 2R	(36) TRACKER X ERROR LO		
J 1-T	J 3-G	A 12Y	(37) SCT SHAFT MOTOR PH 1		
J 1-U	J 3-H	A 12L	(38) SCT SHAFT MOTOR PH 2		
J 1-V	K 6-4	A 13	(39) 0 VDC OPTICS		
J 1-W	K 6-1	A 14	(40) SCT SHAFT DRIVE DISABLE		
J 1-W•	J 3-R•	A 3L	(41) TRACKER Y ERROR HI		
J 1-X	K6-5	A 15	(42) 0 VDC OPTICS		
J 1-X•	J 3-S•	A 3R	(43) TRACKER Y ERROR LO		
J 1-Y•	J 3-AA	A 4L	(44) TRACKER Y DRIVE BUFF HI		
J 1-Z•	J 3-BB	A 4R	(45) TRACKER Y DRIVE BUFF LO		
	J 2		CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 2-A•	E11-BB	B 20	(7) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902384 | SCALE-NONE | REV LTR A• | SHEET 10 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 2-AA	K 1- 1	B 6	(46) SXT SHAFT DRIVE ENABLE		
J 2-B•	J 4-W	B 17L	(47) SXT TRUNNION TACH HI		
J 2-BB	K 2- 1	B 9	(48) SXT TRUNNION DRIVE ENABLE		
J 2-C•	J 4-X	B 17R	(49) SXT TRUNNION TACH LO		
J 2-CC	K 2- 5	B 8	(50) 0 VDC OPTICS		
J 2-D	J 4-D	B 4Y	(51) SXT SHAFT MOTOR PH 1		
J 2-D•	E11-BB	B 21	(7) 0 VDC OPTICS		
J 2-E	J 4-E	B 4L	(52) SXT SHAFT MOTOR PH 2		
J 2-E•	J 4-B•	B 22L	(53) SXT TRUNNION 64X RSLVR S4		
J 2-F	K 1- 4	B 5	(54) 0 VDC OPTICS		
J 2-F•	J 4-C•	B 22R	(55) SXT TRUNNION 64X RSLVR S2		
J 2-G•	J 4-D•	B 23L	(56) SXT TRUNNION 64X RSLVR S1		
J 2-H	J 4-G	B 10L	(57) SXT SHAFT TACH HI		
J 2-H•	J 4-_•	B 23R	(58) SXT TRUNNION 64X RSLVR S3		
J 2-I•	J 4-G•	B 24L	(59) SXT TRUNNION 1X RSLVR S2		
J 2-J	J 4-H	B 10R	(60) SXT SHAFT TACH LO		
J 2-J•	J 4-H•	B 24R	(61) SXT TRUNNION 1X RSLVR S4		
J 2-K	J 4-J	B 11L	(62) SXT SHAFT 16X RSLVR S4		
J 2-K•	J 4-J•	B 25L	(63) SXT TRUNNION 1X RSLVR S1		
J 2-KK	J 4-MM	B 2L	(64) PHOTOMETER SIGNAL HI		
J 2-L	J 4-K	B 11R	(65) SXT SHAFT 16X RSLVR S2		
J 2-LL	J 4-NN	B 2R	(66) PHOTOMETER SIGNAL LO		
J 2-M	J 4-L	B 12L	(67) SXT SHAFT 16X RSLVR S1		
J 2-M•	J 4-K•	B 25R	(68) SXT TRUNNION 1X RSLVR S3		
J 2-MM	J 4-EE	B 3L	(69) STAR PRESENCE HI		
J 2-N	J 4-M	B 12R	(71) SXT SHAFT 16X RSLVR S3		
J 2-N•	E 9-BB	B 31L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 2-NN	J 4-FF	B 3R	(72) STAR PRESENCE LO		
J 2-P	J 4-N	B 13L	(73) SXT SHAFT 1/2 X RSLVR S1		
J 2-P•	E10-BB	B 31R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 2-PP	J 4-PP	B 32Y	(70) 400 CPS SHIELD GROUND		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902384 | SCALE-NONE | REV LTR A• | SHEET 11 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 2-Q•	J 4-Y•	B 33L	(74) 800 CPS 28 V 5 PCT HI OPTICS		
J 2-R	J 4-P	B 13R	(75) SXT SHAFT 1/2 X RSLVR S3		
J 2-R•	J 4-Z•	B 33R	(76) 800 CPS 28 V 5 PCT LO OPTICS		
J 2-S	J 4-R	B 14L	(77) SXT SHAFT 1/2 X RSLVR S4		
J 2-S•	J 4-W•	B 32L	(78) 400 CPS VARIABLE ILL PWR		
J 2-T	J 4-S	B 14R	(79) SXT SHAFT 1/2 X RSLVR S2		
J 2-T•	J 4-X•	B 32R	(80) 400 CPS LO		
J 2-U	J 4-T	B 15Y	(81) SXT TRUNNION MOTOR PH 1		
J 2-V	J 4-U	B 15L	(82) SXT TRUNNION MOTOR PH 2		
J 2-W	K 2- 4	B 16	(83) 0 VDC OPTICS		
J 2-W•	J 4-AA	B 1R	(84) +28 VDC OPTICS TRACKER PWR		
J 2-X	J 5-F	B 35	(85) STAR SIMULATOR SIG HI		
J 2-X•	J 4-BB	B 1L	(86) 0 VDC OPTICS		
J 2-Y	J 5-G	B 36	(87) STAR SIMULATOR SIG LO		
J 2-Y•	J 4-V•	B 22Y	(88) SHIELD		
J 2-Z	J 5-H	B 37	(89) SHIELD		
J 2-Z•	J 4-I•	B 11Y	(90) SHIELD		
			J 3 CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ(1897056-614) FIGURE 1		
J 3-A•	E 7-B	A 33	(10) 0 VDC OPTICS		
J 3-AA	J 1-Y•	A 4L	(44) TRACKER Y DRIVE BUFF HI		
J 3-B•	J 1-R	A 11L	(33) SCT TRUNNION TACH HI		
J 3-BB	J 1-Z•	A 4R	(45) TRACKER Y DRIVE BUFF LO		
J 3-C•	J 1-S	A 11R	(35) SCT TRUNNION TACH LO		
J 3-CC	J 1-P•	A 1L	(30) TRACKER X DRIVE BUFF HI		
J 3-D	J 1-D	A 7Y	(17) SCT TRUNNION MOTOR PH 1		
J 3-D•	J 1-B•	A 17L	(13) SCT SHAFT TACH HI		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 12 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ(1897056-614) FIGURE 1		
J 3-DD	J 1-Q•	A 1R	(32) TRACKER X DRIVE BUFF LO		
J 3-E	J 1-E	A 7R	(19) SCT TRUNNION MOTOR PH 2		
J 3-E•	J 1-C•	A 17R	(15) SCT SHAFT TACH LO		
J 3-EE	J 1-CC	A 6	(16) +28 VDC OPTICS TRACKER PWR		
J 3-F	J 1-F	A 7L	(21) 0 VDC OPTICS		
J 3-G	J 1-T	A 12Y	(37) SCT SHAFT MOTOR PH 1		
J 3-G•	J 1-F•	A 18Y	(22) SHIELD		
J 3-H	J 1-U	A 12L	(38) SCT SHAFT MOTOR PH 2		
J 3-H•	J 1-D•	A 18L	(18) SCT SHAFT 1X RSLVR S2		
J 3-I•	J 1-E•	A 18R	(20) SCT SHAFT 1X RSLVR S4		
J 3-J	K 6-6	A 12R	(91) 0 VDC OPTICS		
J 3-JJ	E 5-B	A 27L	(8) 400 CPS VARIABLE ILL PWR		
J 3-K	J 1-G	A 8L	(23) SCT TRUNNION 1X RSLVR P2		
J 3-KK	E 6-B	A 27R	(9) 400 CPS LO		
J 3-L	J 1-H	A 8R	(24) SCT TRUNNION 1X RSLVR P4		
J 3-LL	E 5-B	A 28L	(8) 400 CPS VARIABLE ILL PWR		
J 3-M	J 1-J	A 9L	(25) SCT TRUNNION 1X RSLVR P3		
J 3-M•	J 1-P	A 10Y	(29) SHIELD		
J 3-MM	E 6-B	A 28R	(9) 400 CPS LO		
J 3-N	J 1-K	A 9R	(26) SCT TRUNNION 1X RSLVR P1		
J 3-NN	J 1-PP	A 32	(31) 400 CPS SHIELD GROUND		
J 3-P	J 1-L	A 10L	(27) SCT TRUNNION 1X RSLVR S2		
J 3-P•	E 7-B	A 16	(10) 0 VDC OPTICS		
J 3-PP	E 1	A 26	(1) CHASSIS GROUND		
J 3-Q•	E 1	A 25	(1) CHASSIS GROUND		
J 3-R	J 1-M	A 10R	(28) SCT TRUNNION 1X RSLVR S4		
J 3-R•	J 1-W•	A 3L	(41) TRACKER Y ERROR HI		
J 3-S	E 3-B	A 22L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
J 3-S•	J 1-X•	A 3R	(43) TRACKER Y ERROR LO		
J 3-T	E 4-B	A 22R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
J 3-T•	J 1-R•	A 2L	(34) TRACKER X ERROR HI		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 13 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ(1897056-614) FIGURE 1		
J 3-U	E 3-B	A 23L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
J 3-U•	J 1-S•	A 2R	(36) TRACKER X ERROR LO		
J 3-V	E 4-B	A 23R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
J 3-V•	J 1-AA	A 5L	(12) TRACKER PREAMP OUTPUT BUFF HI		
J 3-W	E 8-B	A 19L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
J 3-W•	J 1-BB	A 5R	(14) TRACKER PREAMP OUTPUT BUFF LO		
J 3-X	E 2-B	A 19R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
J 3-Y	E 8-B	A 20L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
J 3-Z	E 2-B	A 20R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
			J 4 CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY (1897056-613) FIGURE 1		
J 4-AA	J 2-W•	B 1R	(84) +28 VDC OPTICS TRACKER PWR		
J 4-B•	J 2-E•	B 22L	(53) SXT TRUNNION 64X RSLVR S4		
J 4-BB	J 2-X•	B 1L	(86) 0 VDC OPTICS		
J 4-C•	J 2-F•	B 22R	(55) SXT TRUNNION 64X RSLVR S2		
J 4-CC	E1	B 34	(1) CHASSIS GROUND		
J 4-D	J 2-D	B 4Y	(51) SXT SHAFT MOTOR PH 1		
J 4-D•	J 2-G•	B 23L	(56) SXT TRUNNION 64X RSLVR S1		
J 4-DD	E11-B	B 19	(7) 0 VDC OPTICS		
J 4-E	J 2-E	B 4L	(52) SXT SHAFT MOTOR PH 2		
J 4-E•	J 2-H•	B 23R	(58) SXT TRUNNION 64X RSLVR S3		
J 4-EE	J 2-MM	B 3L	(69) STAR PRESENCE HI		
J 4-F	K 1- 7	B 4R	(92) 0 VDC OPTICS		
J 4-FF	J 2-NN	B 3R	(72) STAR PRESENCE LO		
J 4-G	J 2-H	B 10L	(57) SXT SHAFT TACH HI		
J 4-G•	J 2-I•	B 24L	(59) SXT TRUNNION 1X RSLVR S2		
J 4-H	J 2-J	B 10R	(60) SXT SHAFT TACH LO		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 14 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY (1897056-613) FIGURE 1		
J 4-H•	J 2-J•	B 24R	(61) SXT TRUNNION 1X RSLVR S4		
J 4-HH	E 9-B	B 26L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 4-I•	J 2-Z•	B 11Y	(90) SHIELD		
J 4-J	J 2-K	B 11L	(62) SXT SHAFT 16X RSLVR S4		
J 4-J•	J 2-K•	B 25L	(63) SXT TRUNNION 1X RSLVR S1		
J 4-JJ	E10-B	B 26R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 4-K	J 2-L	B 11R	(65) SXT SHAFT 16X RSLVR S2		
J 4-K•	J 2-M•	B 25R	(68) SXT TRUNNION 1X RSLVR S3		
J 4-KK	E 9-B	B 30L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 4-L	J 2-M	B 12L	(67) SXT SHAFT 16X RSLVR S1		
J 4-LL	E10-B	B 30R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 4-M	J 2-N	B 12R	(71) SXT SHAFT 16X RSLVR S3		
J 4-MM	J 2-KK	B 2L	(64) PHOTOMETER SIGNAL HI		
J 4-N	J 2-P	B 13L	(73) SXT SHAFT 1/2 X RSLVR S1		
J 4-NN	J 2-LL	B 2R	(66) PHOTOMETER SIG LO		
J 4-P	J 2-R	B 13R	(75) SXT SHAFT 1/2 X RSLVR S3		
J 4-P•	E 9-B	B 27L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 4-PP	J 2-PP	B 32Y	(70) 400 CPS SHIELD GROUND		
J 4-Q•	E10-B	B 27R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 4-R	J 2-S	B 14L	(77) SXT SHAFT 1/2 X RSLVR S4		
J 4-R•	E 2-B	B 28L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 4-S	J 2-T	B 14R	(79) SXT SHAFT 1/2 X RSLVR S2		
J 4-S•	E10-B	B 28R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 4-T	J 2-U	B 15Y	(81) SXT TRUNNION MOTOR PH 1		
J 4-T•	E 9-B	B 29L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 4-U	J 2-V	B 15L	(82) SXT TRUNNION MOTOR PH 2		
J 4-U•	E10-B	B 29R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 4-V	K 2- 7	B 15R	(93) 0 VDC OPTICS		
J 4-V•	J 2-Y•	B 22Y	(88) SHIELD		
J 4-W	J 2-B•	B 17L	(47) SXT TRUNNION TACH HI		
J 4-W•	J 2-S•	B 32L	(78) 400 CPS VARIABLE ILL PWR		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 15 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY (1897056-613) FIGURE 1		
J 4-X	J 2-C*	B 17R	(49) SXT TRUNNION TACH LO		
J 4-X*	J 2-T*	B 32R	(80) 400 CPS LO		
J 4-Y	E11-B	B 18	(7) 0 VDC OPTICS		
J 4-Y*	J 2-Q*	B 33L	(74) 800 CPS 28 V 5 PCT HI OPTICS		
J 4-Z*	J 2-R*	B 33R	(76) 800 CPS 28 V 5 PCT LO OPTICS		
	J 5		CONNECTOR-RECEPTACLE, CRIMP TYPE PIN CONTACT MS3127E14-15P (1897115-150) FIGURE 2		
J 5-A	E1	B 38	(1) CHASSIS GROUND		
J 5-F	J 2-X	B 35	(85) STAR SIMULATOR SIG HI		
J 5-G	J 2-Y	B 36	(87) STAR SIMULATOR SIG LO		
J 5-H	J 2-Z	B 37	(89) SHIELD		
	K 1		RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5		
K 1- 1	J 2-AA	B 6	(46) SXT SHAFT DRIVE ENABLE		
K 1- 4	J 2-F	B 5	(54) 0 VDC OPTICS		
K 1- 5	K 2- 5	B 7	(50) 0 VDC OPTICS		
K 1- 7	J 4-F	B 4R	(92) 0 VDC OPTICS		
	K 2		RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5		
K 2- 1	J 2-BB	B 9	(48) SXT TRUNNION DRIVE ENABLE		
K 2- 4	J 2-W	B 16	(83) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A*	SHEET 16 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) K 2			RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5		
K 2- 5	K 1- 5	B 7	(50) 0 VDC OPTICS		
K 2- 5	J 2-CC	B 8	(50) 0 VDC OPTICS		
K 2- 7	J 4-V	B 15R	(93) 0 VDC OPTICS		
	K 6		RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5		
K 6-1	J 1-W	A 14	(40) SCT SHAFT DRIVE DISABLE		
K 6-4	J 1-V	A 13	(39) 0 VDC OPTICS		
K 6-5	J 1-X	A 15	(42) 0 VDC OPTICS		
K 6-6	J 3-J	A 12R	(91) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A*	SHEET 17 of 17

APPLICATION		REVISIONS 18846			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902301-011 (M)	A	UPGRADED TO CLASS 'A' PER TDRR 18846	22 MAR -65	
		B	REVISED PER TDRR 18848	MAY 65	RJJ

REV																					
SHEET																					
REV STATUS	REV	B	A	A	A	A	A	A	B	B	B	B	B	B	B	B	A				
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Tadas 8/3 APR 65 DATE
CHECKED E. BRICE 19 MAR 65
APPROVAL E. J. Hurst 19 MAR 65
APPROVAL L. Johnson 3/29/65

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

RUNNING LIST - JUNCTION BOX ASSEMBLY, TRACKER

CODE IDENT NO.	SIZE		REV
99974	A	1902384	B

SCALE — SHEET 1 OF 17

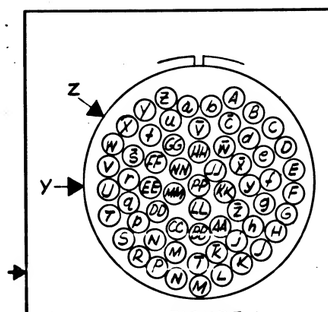


FIGURE 1

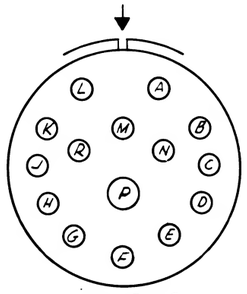


FIGURE 2

INSERT ARR	INSERT POSITIONS IN DEGREES		
	Y	Z	
-61	270°	324°	

INSERT ARR	INSERT POSITIONS IN DEGREES	
	NORMAL	
-15	0°	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384 SHEET 2 OF 17

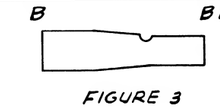


FIGURE 3

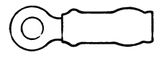


FIGURE 4

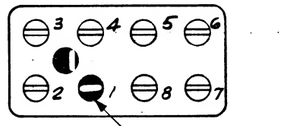


FIGURE 5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384 SHEET 3 OF 17

PENNANT NOTE	GENERAL NOTES
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN -- PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	A LETTER WITH AN ASTERISK, INDICATES A LOWER CASE LETTER.
5	WIRING END OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT-FACE OF PIN CONNECTORS SHOWN, SOCKET CONNECTORS OPPOSITE.
6	UNLESS OTHERWISE SPECIFIED, ALL CONDUCTORS ARE WHITE.
7	DRAWINGS FOR REFERENCE --- 1902404-011 JUNCTION BOX ASSEMBLY, TRACKER 1902385 WIRING HARNESS A 1902383 WIRING HARNESS B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902384
SCALE - NONE	REV LTR A*	SHEET 4 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
	E 1 TERMINAL-LUG, CRIMP STYLE 1015902-49 FIGURE 4				
E 1-2	J 4-CC	B 34	(1) CHASSIS GROUND		
E 1-3	J 5-A	B 38	(1) CHASSIS GROUND		
E 1-6	J 3-Q*	A 25	(1) CHASSIS GROUND		
E 1-7	J 3-PP	A 26	(1) CHASSIS GROUND		
	E 2-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 2-B	J 3-X	A 19R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
E 2-B	J 3-Z	A 20R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
	E 2-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 2-BB	J 1-I*	A 21R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
	E 3-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 3-B	J 3-S	A 22L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
E 3-B	J 3-U	A 23L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
	E 3-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 3-BB	J 1-J*	A 24L	(4) 800 CPS 28 V 5 PCT LO OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902384
SCALE - NONE	REV LTR A*	SHEET 5 OF 17

FROM	TO	COND NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
	E 4-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 4-B	J 3-T	A	22R (6) 800 CPS 28 V 5 PCT LO OPTICS		
E 4-B	J 3-V	A	23R (6) 800 CPS 28 V 5 PCT LO OPTICS		
	E 4-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 4-BB	J 1-K•	A	24R (6) 800 CPS 28 V 5 PCT LO OPTICS		
	E 5-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 5-B	J 3-JJ	A	27L (8) 400 CPS VARIABLE ILL PWR		
E 5-B	J 3-LL	A	28L (8) 400 CPS VARIABLE ILL PWR		
	E 5-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 5-BB	J 1-M•	A	29L (8) 400 CPS VARIABLE ILL PWR		
	E 6-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 6-B	J 3-KK	A	27R (9) 400 CPS LO		
E 6-B	J 3-MM	A	28R (9) 400 CPS LO		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 6 OF 17

FROM	TO	COND NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
	E 6-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 6-BB	J 1-N•	A	29R (9) 400 CPS LO		
	E 7-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 7-B	J 3-P•	A	16 (10) 0 VDC OPTICS		
E 7-B	J 1-DD	A	31 (10) 0 VDC OPTICS		
E 7-B	J 3-A•	A	33 (10) 0 VDC OPTICS		
	E 7-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 7-BB	J 1-EE	A	30 (10) 0 VDC OPTICS		
	E 8-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 8-B	J 3-W	A	19L (11) 800 CPS 28 V 1 PCT HI OPTICS		
E 8-B	J 3-Y	A	20L (11) 800 CPS 28 V 1 PCT HI OPTICS		
	E 8-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 8-BB	J 1-H•	A	21L (11) 800 CPS 28 V 1 PCT HI OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 7 OF 17

FROM	TO	COND NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
	E 9-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-B	J 4-HH	B	26L (3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-P•	B	27L (3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-R•	B	28L (3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-T•	B	29L (3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-KK	B	30L (3) 800 CPS 28 V 1 PCT HI OPTICS		
	E 9-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-BB	J 2-N•	B	31L (3) 800 CPS 28 V 1 PCT HI OPTICS		
	E10-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-B	J 4-JJ	B	26R (5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-Q•	B	27R (5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-S•	B	28R (5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-U•	B	29R (5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-LL	B	30R (5) 800 CPS 28 V 1 PCT LO OPTICS		
	E10-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-BB	J 2-P•	B	31R (5) 800 CPS 28 V 1 PCT LO OPTICS		
	E11-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-Y	B	18 (7) 0 VDC OPTICS		

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SCALE-NONE	REV LTR A•	SHEET 8 OF 17

FROM	TO	LEAD NO	C I R C U I T F U N C T I O N	PEN NOTE	WIRE CODE
(CONT.) E11-B			SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-DD	B	19 (7) 0 VDC OPTICS		
	E11-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-BB	J 2-A•	B	20 (7) 0 VDC OPTICS		
E11-BB	J 2-D•	B	21 (7) 0 VDC OPTICS		
	J 1		CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 1-AA	J 3-V•	A	5L (12) TRACKER PREAMP OUTPUT BUFF HI		
J 1-B•	J 3-D•	A	17L (13) SCT SHAFT TACH HI		
J 1-BB	J 3-W•	A	5R (14) TRACKER PREAMP OUTPUT BUFF LO		
J 1-C•	J 3-E•	A	17R (15) SCT SHAFT TACH LO		
J 1-CC	J 3-EE	A	6 (16) +28 VDC OPTICS TRACKER PWR		
J 1-D	J 3-D	A	7Y (17) SCT TRUNNION MOTOT PH 1		
J 1-D•	J 3-H•	A	18L (18) SCT SHAFT 1X RSLVR S2		
J 1-DD	E 7-B	A	31 (10) 0 VDC OPTICS		
J 1-E	J 3-E	A	7R (19) SCT TRUNNION MOTOR PH 2		
J 1-E•	J 3-I•	A	18R (20) SCT SHAFT 1X RSLVR S4		
J 1-EE	E 7-BB	A	30 (10) 0 VDC OPTICS		
J 1-F	J 3-F	A	7L (21) 0 VDC OPTICS		
J 1-F•	J 3-G•	A	18Y (22) SHIELD		
J 1-G	J 3-K	A	8L (23) SCT TRUNNION 1X RSLVR P2		
J 1-H	J 3-L	A	8R (24) SCT TRUNNION 1X RSLVR P4		
J 1-H•	E 8-BB	A	21L (11) 800 CPS 28 V 1 PCT HI OPTICS		
J 1-I•	E 2-BB	A	21R (2) 800 CPS 28 V 1 PCT LO OPTICS		
J 1-J	J 3-M	A	9L (25) SCT TRUNNION 1X RSLVR P3		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 9 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 1			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 1-J•	E 3-BB	A 24L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 1-K	J 3-N	A 9R (26)	SCT TRUNNION 1X RSLVR P1		
J 1-K•	E 4-BB	A 24R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 1-L	J 3-P	A 10L (27)	SCT TRUNNION 1X RSLVR S2		
J 1-M	J 3-R	A 10R (28)	SCT TRUNNION 1X RSLVR S4		
J 1-M•	E 5-BB	A 29L (8)	400 CPS VARIABLE ILL PWR		
J 1-N•	E 6-BB	A 29R (9)	400 CPS LO		
J 1-P	J 3-M•	A 10Y (29)	SHIELD		
J 1-P•	J 3-CC	A 1L (30)	TRACKER X DRIVE BUFF HI		
J 1-PP	J 3-NN	A 32 (31)	400 CPS SHIELD GROUND		
J 1-Q•	J 3-DD	A 1R (32)	TRACKER X DRIVE BUFF LO		
J 1-R	J 3-B•	A 11L (33)	SCT TRUNNION TACH HI		
J 1-R•	J 3-T•	A 2L (34)	TRACKER X ERROR HI		
J 1-S	J 3-C•	A 11R (35)	SCT TRUNNION TACH LO		
J 1-S•	J 3-U•	A 2R (36)	TRACKER X ERROR LO		
J 1-T	J 3-G	A 12Y (37)	SCT SHAFT MOTOR PH 1		
J 1-U	J 3-H	A 12L (38)	SCT SHAFT MOTOR PH 2		
J 1-V	K 6-4	A 13 (39)	0 VDC OPTICS		
J 1-W	K 6-1	A 14 (40)	SCT SHAFT DRIVE DISABLE		
J 1-W•	J 3-R•	A 3L (41)	TRACKER Y ERROR HI		
J 1-X	K6-5	A 15 (42)	0 VDC OPTICS		
J 1-X•	J 3-S•	A 3R (43)	TRACKER Y ERROR LO		
J 1-Y•	J 3-AA	A 4L (44)	TRACKER Y DRIVE BUFF HI		
J 1-Z•	J 3-BB	A 4R (45)	TRACKER Y DRIVE BUFF LO		
	J 2		CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1		
J 2-A•	E11-BB	B 20 (7)	0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 10 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1		
J 2-AA	K 1- 1	B 6 (46)	SXT SHAFT DRIVE ENABLE		
J 2-B•	J 4-W	B 17L (47)	SXT TRUNNION TACH HI		
J 2-BB	K 2- 1	B 9 (48)	SXT TRUNNION DRIVE ENABLE		
J 2-C•	J 4-X	B 17R (49)	SXT TRUNNION TACH LO		
J 2-CC	K 2- 5	B 8 (50)	0 VDC OPTICS		
J 2-D	J 4-D	B 4Y (51)	SXT SHAFT MOTOR PH 1		
J 2-D•	E11-BB	B 21 (7)	0 VDC OPTICS		
J 2-E	J 4-E	B 4L (52)	SXT SHAFT MOTOR PH 2		
J 2-E•	J 4-B•	B 22L (53)	SXT TRUNNION 64X RSLVR S4		
J 2-F	K 1- 4	B 5 (54)	0 VDC OPTICS		
J 2-F•	J 4-C•	B 22R (55)	SXT TRUNNION 64X RSLVR S2		
J 2-G•	J 4-D•	B 23L (56)	SXT TRUNNION 64X RSLVR S1		
J 2-H	J 4-G	B 10L (57)	SXT SHAFT TACH HI		
J 2-H•	J 4-E•	B 23R (58)	SXT TRUNNION 64X RSLVR S3		
J 2-I•	J 4-G•	B 24L (59)	SXT TRUNNION 1X RSLVR S2		
J 2-J	J 4-H	B 10R (60)	SXT SHAFT TACH LO		
J 2-J•	J 4-H•	B 24R (61)	SXT TRUNNION 1X RSLVR S4		
J 2-K	J 4-J	B 11L (62)	SXT SHAFT 16X RSLVR S4		
J 2-K•	J 4-J•	B 25L (63)	SXT TRUNNION 1X RSLVR S1		
J 2-KK	J 4-MM	B 2L (64)	PHOTOMETER SIGNAL HI		
J 2-L	J 4-K	B 11R (65)	SXT SHAFT 16X RSLVR S2		
J 2-LL	J 4-NN	B 2R (66)	PHOTOMETER SIGNAL LO		
J 2-M	J 4-L	B 12L (67)	SXT SHAFT 16X RSLVR S1		
J 2-M•	J 4-K•	B 25R (68)	SXT TRUNNION 1X RSLVR S3		
J 2-MM	J 4-EE	B 3L (69)	STAR PRESENCE HI		
J 2-N	J 4-M	B 12R (71)	SXT SHAFT 16X RSLVR S3		
J 2-N•	E 9-BB	B 31L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 2-NN	J 4-FF	B 3R (72)	STAR PRESENCE LO		
J 2-P	J 4-N	B 13L (73)	SXT SHAFT 1/2 X RSLVR S1		
J 2-P•	E10-BB	B 31R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 2-PP	J 4-PP	B 32Y (70)	400 CPS SHIELD GROUND		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 11 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1		
J 2-Q•	J 4-Y•	B 33L (74)	800 CPS 28 V 5 PCT HI OPTICS		
J 2-R	J 4-P	B 13R (75)	SXT SHAFT 1/2 X RSLVR S3		
J 2-R•	J 4-Z•	B 33R (76)	800 CPS 28 V 5 PCT LO OPTICS		
J 2-S	J 4-R	B 14L (77)	SXT SHAFT 1/2 X RSLVR S4		
J 2-S•	J 4-W•	B 32L (78)	400 CPS VARIABLE ILL PWR		
J 2-T	J 4-S	B 14R (79)	SXT SHAFT 1/2 X RSLVR S2		
J 2-T•	J 4-X•	B 32R (80)	400 CPS LO		
J 2-U	J 4-T	B 15Y (81)	SXT TRUNNION MOTOR PH 1		
J 2-V	J 4-U	B 15L (82)	SXT TRUNNION MOTOR PH 2		
J 2-W	K 2- 4	B 16 (83)	0 VDC OPTICS		
J 2-W•	J 4-AA	B 1R (84)	+28 VDC OPTICS TRACKER PWR		
J 2-X	J 5-F	B 35 (85)	STAR SIMULATOR SIG HI		
J 2-X•	J 4-BB	B 1L (86)	0 VDC OPTICS		
J 2-Y	J 5-G	B 36 (87)	STAR SIMULATOR SIG LO		
J 2-Y•	J 4-V•	B 22Y (88)	SHIELD		
J 2-Z	J 5-H	B 37 (89)	SHIELD		
J 2-Z•	J 4-I•	B 11Y (90)	SHIELD		
	J 3		CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1		
J 3-A•	E 7-B	A 33 (10)	0 VDC OPTICS		
J 3-AA	J 1-Y•	A 4L (44)	TRACKER Y DRIVE BUFF HI		
J 3-B•	J 1-R	A 11L (33)	SCT TRUNNION TACH HI		
J 3-BB	J 1-Z•	A 4R (45)	TRACKER Y DRIVE BUFF LO		
J 3-C•	J 1-S	A 11R (35)	SCT TRUNNION TACH LO		
J 3-CC	J 1-P•	A 1L (30)	TRACKER X DRIVE BUFF HI		
J 3-D	J 1-D	A 7Y (17)	SCT TRUNNION MOTOR PH 1		
J 3-D•	J 1-B•	A 17L (13)	SCT SHAFT TACH HI		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3			CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1		
J 3-DD	J 1-Q•	A 1R (32)	TRACKER X DRIVE BUFF LO		
J 3-E	J 1-E	A 7R (19)	SCT TRUNNION MOTOR PH 2		
J 3-E•	J 1-C•	A 17R (15)	SCT SHAFT TACH LO		
J 3-EE	J 1-CC	A 6 (16)	+28 VDC OPTICS TRACKER PWR		
J 3-F	J 1-F	A 7L (21)	0 VDC OPTICS		
J 3-G	J 1-T	A 12Y (37)	SCT SHAFT MOTOR PH 1		
J 3-G•	J 1-F•	A 18Y (22)	SHIELD		
J 3-H	J 1-U	A 12L (38)	SCT SHAFT MOTOR PH 2		
J 3-H•	J 1-D•	A 18L (18)	SCT SHAFT 1X RSLVR S2		
J 3-I•	J 1-E•	A 18R (20)	SCT SHAFT 1X RSLVR S4		
J 3-J	K 6-6	A 12R (91)	0 VDC OPTICS		
J 3-JJ	E 5-B	A 27L (8)	400 CPS VARIABLE ILL PWR		
J 3-K	J 1-G	A 8L (23)	SCT TRUNNION 1X RSLVR P2		
J 3-KK	E 6-B	A 27R (9)	400 CPS LO		
J 3-L	J 1-H	A 8R (24)	SCT TRUNNION 1X RSLVR P4		
J 3-LL	E 5-B	A 28L (8)	400 CPS VARIABLE ILL PWR		
J 3-M	J 1-J	A 9L (25)	SCT TRUNNION 1X RSLVR P3		
J 3-M•	J 1-P	A 10Y (29)	SHIELD		
J 3-MM	E 6-B	A 28R (9)	400 CPS LO		
J 3-N	J 1-K	A 9R (26)	SCT TRUNNION 1X RSLVR P1		
J 3-NN	J 1-PP	A 32 (31)	400 CPS SHIELD GROUND		
J 3-P	J 1-L	A 10L (27)	SCT TRUNNION 1X RSLVR S2		
J 3-P•	E 7-B	A 16 (10)	0 VDC OPTICS		
J 3-PP	E 1	A 26 (1)	CHASSIS GROUND		
J 3-Q•	E 1	A 25 (1)	CHASSIS GROUND		
J 3-R	J 1-M	A 10R (28)	SCT TRUNNION 1X RSLVR S4		
J 3-R•	J 1-W•	A 3L (41)	TRACKER Y ERROR HI		
J 3-S	E 3-B	A 22L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 3-S•	J 1-X•	A 3R (43)	TRACKER Y ERROR LO		
J 3-T	E 4-B	A 22R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 3-T•	J 1-R•	A 2L (34)	TRACKER X ERROR HI		

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SCALE-NONE	REV LTR B	SHEET 13 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-U	E 3-B	A 23L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 3-U*	J 1-S*	A 2R (36)	TRACKER X ERROR LO		
J 3-V	E 4-B	A 23R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 3-V*	J 1-AA	A 5L (12)	TRACKER PREAMP OUTPUT BUFF HI		
J 3-W	E 8-B	A 19L (11)	800 CPS 28 V 1 PCT HI OPTICS		
J 3-W*	J 1-BB	A 5R (14)	TRACKER PREAMP OUTPUT BUFF LO		
J 3-X	E 2-B	A 19R (2)	800 CPS 28 V 1 PCT LO OPTICS		
J 3-Y	E 8-B	A 20L (11)	800 CPS 28 V 1 PCT HI OPTICS		
J 3-Z	E 2-B	A 20R (2)	800 CPS 28 V 1 PCT LO OPTICS		
J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-AA	J 2-W*	B 1R (84)	+28 VDC OPTICS TRACKER PWR		
J 4-B*	J 2-E*	B 22L (53)	SXT TRUNNION 64X RSLVR S4		
J 4-BB	J 2-X*	B 1L (86)	0 VDC OPTICS		
J 4-C*	J 2-F*	B 22R (55)	SXT TRUNNION 64X RSLVR S2		
J 4-CC	E1	B 34 (1)	CHASSIS GROUND		
J 4-D	J 2-D	B 4Y (51)	SXT SHAFT MOTOR PH 1		
J 4-D*	J 2-G*	B 23L (56)	SXT TRUNNION 64X RSLVR S1		
J 4-DD	E11-B	B 19 (7)	0 VDC OPTICS		
J 4-E	J 2-E	B 4L (52)	SXT SHAFT MOTOR PH 2		
J 4-E*	J 2-H*	B 23R (58)	SXT TRUNNION 64X RSLVR S3		
J 4-EE	J 2-MM	B 3L (69)	STAR PRESENCE HI		
J 4-F	K 1- 7	B 4R (92)	0 VDC OPTICS		
J 4-FF	J 2-NN	B 3R (72)	STAR PRESENCE LO		
J 4-G	J 2-H	B 10L (57)	SXT SHAFT TACH HI		
J 4-G*	J 2-I*	B 24L (59)	SXT TRUNNION 1X RSLVR S2		
J 4-H	J 2-J	B 10R (60)	SXT SHAFT TACH LO		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 14 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-H*	J 2-J*	B 24R (61)	SXT TRUNNION 1X RSLVR S4		
J 4-HH	E 9-B	B 26L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-I*	J 2-Z*	B 11Y (90)	SHIELD		
J 4-J	J 2-K	B 11L (62)	SXT SHAFT 16X RSLVR S4		
J 4-J*	J 2-K*	B 25L (63)	SXT TRUNNION 1X RSLVR S1		
J 4-JJ	E10-B	B 26R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-K	J 2-L	B 11R (65)	SXT SHAFT 16X RSLVR S2		
J 4-K*	J 2-M*	B 25R (68)	SXT TRUNNION 1X RSLVR S3		
J 4-KK	E 9-B	B 30L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-L	J 2-M	B 12L (67)	SXT SHAFT 16X RSLVR S1		
J 4-LL	E10-B	B 30R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-M	J 2-N	B 12R (71)	SXT SHAFT 16X RSLVR S3		
J 4-MM	J 2-KK	B 2L (64)	PHOTOMETER SIGNAL HI		
J 4-N	J 2-P	B 13L (73)	SXT SHAFT 1/2 X RSLVR S1		
J 4-NN	J 2-LL	B 2R (66)	PHOTOMETER SIG LO		
J 4-P	J 2-R	B 13R (75)	SXT SHAFT 1/2 X RSLVR S3		
J 4-P*	E 9-B	B 27L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-PP	J 2-PP	B 32Y (70)	400 CPS SHIELD GROUND		
J 4-Q*	E10-B	B 27R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-R	J 2-S	B 14L (77)	SXT SHAFT 1/2 X RSLVR S4		
J 4-R*	E 2-B	B 28L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-S	J 2-T	B 14R (79)	SXT SHAFT 1/2 X RSLVR S2		
J 4-S*	E10-B	B 28R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-T	J 2-U	B 15Y (81)	SXT TRUNNION MOTOR PH 1		
J 4-T*	E 9-B	B 29L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-U	J 2-V	B 15L (82)	SXT TRUNNION MOTOR PH 2		
J 4-U*	E10-B	B 29R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-V	K 2- 7	B 15R (93)	0 VDC OPTICS		
J 4-V*	J 2-Y*	B 22Y (88)	SHIELD		
J 4-W	J 2-B*	B 17L (47)	SXT TRUNNION TACH HI		
J 4-W*	J 2-S*	B 32L (78)	400 CPS VARIABLE ILL PWR		

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SCALE-NONE	REV LTR B	SHEET 15 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-X	J 2-C*	B 17R (49)	SXT TRUNNION TACH LO		
J 4-X*	J 2-T*	B 32R (80)	400 CPS LO		
J 4-Y	E11-B	B 18 (7)	0 VDC OPTICS		
J 4-Y*	J 2-Q*	B 33L (74)	800 CPS 28 V 5 PCT HI OPTICS		
J 4-Z*	J 2-R*	B 33R (76)	800 CPS 28 V 5 PCT LO OPTICS		
J 5	CONNECTOR-RECEPTACLE, CRIMP TYPE PIN CONTACT MS3127E14-15P (1897115-150) FIGURE 2				
J 5-A	E1	B 38 (1)	CHASSIS GROUND		
J 5-F	J 2-X	B 35 (85)	STAR SIMULATOR SIG HI		
J 5-G	J 2-Y	B 36 (87)	STAR SIMULATOR SIG LO		
J 5-H	J 2-Z	B 37 (89)	SHIELD		
K 1	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 1- 1	J 2-AA	B 6 (46)	SXT SHAFT DRIVE ENABLE		
K 1- 4	J 2-F	B 5 (54)	0 VDC OPTICS		
K 1- 5	K 2- 5	B 7 (50)	0 VDC OPTICS		
K 1- 7	J 4-F	B 4R (92)	0 VDC OPTICS		
K 2	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 2- 1	J 2-BB	B 9 (48)	SXT TRUNNION DRIVE ENABLE		
K 2- 4	J 2-W	B 16 (83)	0 VDC OPTICS		

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FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) K 2	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 2- 5	K 1- 5	B 7	(50) 0 VDC OPTICS		
K 2- 5	J 2-CC	B 8	(50) 0 VDC OPTICS		
K 2- 7	J 4-V	B 15R	(93) 0 VDC OPTICS		
K 6	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 6-1	J 1-W	A 14	(40) SCT SHAFT DRIVE DISABLE		
K 6-4	J 1-V	A 13	(39) 0 VDC OPTICS		
K 6-5	J 1-X	A 15	(42) 0 VDC OPTICS		
K 6-6	J 3-J	A 12R	(91) 0 VDC OPTICS		

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APPLICATION		REVISIONS 17816			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902301-011	A	UPGRADED TO CLASS 'A' PER TDRR 17816	22 MAR -65	
	(M)	B	REVISED PER TDRR 18948	7 MAY 65	RJJ
		C	REVISED PER TDRR 21030	27 JUL 65	SKA

REV																							
SHEET																							
REV STATUS	REV	C	A	A	A	A	C	A	C	B	B	C	B	B	B	B	A						
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17					

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Packard 12 FEB 65 DATE
CHECKED E RICE 19 MAR 65
APPROVAL E. J. Hurst 19 MAR 65
APPROVAL L Ackerman 3/29/65

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

RUNNING LIST - JUNCTION BOX ASSEMBLY, TRACKER

CODE IDENT NO.	SIZE		REV
99974	A	1902384	C

SCALE —

SHEET 1 OF 17

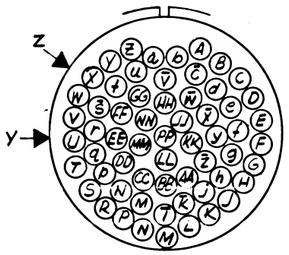


FIGURE 1

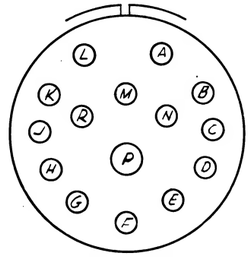


FIGURE 2

INSERT ARR	INSERT POSITIONS IN DEGREES		
	Y	Z	
-61	270°	324°	

INSERT ARR	INSERT POSITIONS IN DEGREES	
	NORMAL	
-15	0°	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384
		SHEET 2 OF 17

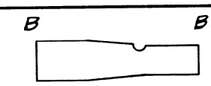


FIGURE 3

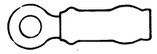


FIGURE 4

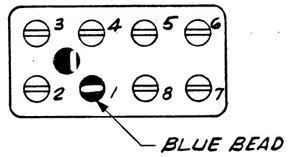


FIGURE 5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384
		SHEET 3 OF 17

PENNANT NOTE	GENERAL NOTES
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN -- PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	A LETTER WITH AN ASTERISK, INDICATES A LOWER CASE LETTER.
5	WIRING END OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT-FACE OF PIN CONNECTORS SHOWN, SOCKET CONNECTORS OPPOSITE.
6	UNLESS OTHERWISE SPECIFIED, ALL CONDUCTORS ARE WHITE.
7	DRAWINGS FOR REFERENCE --- 1902404-011 JUNCTION BOX ASSEMBLY, TRACKER 1902385 WIRING HARNESS A 1902383 WIRING HARNESS B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902384
SCALE - NONE	REV LTR A	SHEET 4 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
	E 1 TERMINAL-LUG, CRIMP STYLE 1015902-49 FIGURE 4				
E 1-2	J 4-CC	B 34	(1) CHASSIS GROUND		
E 1-3	J 5-A	B 38	(1) CHASSIS GROUND		
E 1-6	J 3-Q*	A 25	(1) CHASSIS GROUND		
E 1-7	J 3-PP	A 26	(1) CHASSIS GROUND		
	E 2-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 2-B	J 3-X	A 19R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
E 2-B	J 3-Z	A 20R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
	E 2-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 2-BB	J 1-I*	A 21R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
	E 3-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 3-B	J 3-S	A 22L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
E 3-B	J 3-U	A 23L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
	E 3-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3				
E 3-BB	J 1-J*	A 24L	(4) 800 CPS 28 V 5 PCT LO OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902384
SCALE - NONE	REV LTR A	SHEET 5 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
	E 4-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 4-B	J 3-T	A 22R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
E 4-B	J 3-V	A 23R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
	E 4-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 4-BB	J 1-K•	A 24R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
	E 5-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 5-B	J 3-JJ	A 27L	(8) 400 CPS VARIABLE ILL PWR		
E 5-B	J 3-LL	A 28L	(8) 400 CPS VARIABLE ILL PWR		
	E 5-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 5-BB	J 1-M•	A 29L	(8) 400 CPS VARIABLE ILL PWR		
	E 6-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 6-B	J 3-KK	A 27R	(9) 400 CPS LO		
E 6-B	J 3-MM	A 28R	(9) 400 CPS LO		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 6 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
	E 6-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 6-BB	J 1-N•	A 29R	(9) 400 CPS LO		
	E 7-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 7-B	J 3-P•	A 16	(10) 0 VDC OPTICS		
~~E 7-B~~	~~J 1-DD~~	~~A 31~~	~~(10) 0 VDC OPTICS~~		
E 7-B	J 3-A•	A 33	(10) 0 VDC OPTICS		
	E 7-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 7-BB	J 1-EE	A 30	(10) 0 VDC OPTICS		
	E 8-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 8-B	J 3-W	A 19L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
E 8-B	J 3-Y	A 20L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
	E 8-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 8-BB	J 1-H•	A 21L	(11) 800 CPS 28 V 1 PCT HI OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR C•	SHEET 7 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
	E 9-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-B	J 4-HH	B 26L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-P•	B 27L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-R•	B 28L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-T•	B 29L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-KK	B 30L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
	E 9-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-BB	J 2-N•	B 31L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
	E10-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-B	J 4-JJ	B 26R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-Q•	B 27R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-S•	B 28R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-U•	B 29R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-LL	B 30R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
	E10-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-BB	J 2-P•	B 31R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
	E11-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-Y	B 18	(7) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR A•	SHEET 8 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) E11-B			SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-DD	B 19	(7) 0 VDC OPTICS		
	E11-BB		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-BB	J 2-A•	B 20	(7) 0 VDC OPTICS		
E11-BB	J 2-D•	B 21	(7) 0 VDC OPTICS		
	J 1		CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 1-AA	J 3-V•	A 5L	(12) TRACKER PREAMP OUTPUT BUFF HI		
J 1-B•	J 3-D•	A 17L	(13) SCT SHAFT TACH HI		
J 1-BB	J 3-W•	A 5R	(14) TRACKER PREAMP OUTPUT BUFF LO		
J 1-C•	J 3-E•	A 17R	(15) SCT SHAFT TACH LO		
J 1-CC	J 3-EE	A 6	(16) +28 VDC OPTICS TRACKER PWR		
J 1-D	J 3-D	A 7Y	(17) SCT TRUNNION MOTOT PH 1		
J 1-D•	J 3-H•	A 18L	(18) SCT SHAFT 1X RSLVR S2		
~~J 1-DD~~	~~E 7-B~~	~~A 31~~	~~(10) 0 VDC OPTICS~~		
J 1-E	J 3-E	A 7R	(19) SCT TRUNNION MOTOR PH 2		
J 1-E•	J 3-I•	A 18R	(20) SCT SHAFT 1X RSLVR S4		
J 1-EE	E 7-BB	A 30	(10) 0 VDC OPTICS		
J 1-F	J 3-F	A 7L	(21) 0 VDC OPTICS		
J 1-F•	J 3-G•	A 18Y	(22) SHIELD		
J 1-G	J 3-K	A 8L	(23) SCT TRUNNION 1X RSLVR P2		
J 1-H	J 3-L	A 8R	(24) SCT TRUNNION 1X RSLVR P4		
J 1-H•	E 8-BB	A 21L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
J 1-I•	E 2-BB	A 21R	(21) 800 CPS 28 V 1 PCT LO OPTICS		
J 1-J	J 3-N	A 9L	(25) SCT TRUNNION 1X RSLVR P3		
J 1-DD	J 3-FF	A 31	(94) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR C•	SHEET 9 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 1	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1				
J 1-J•	E 3-BB	A 24L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 1-K	J 3-N	A 9R (26)	SCT TRUNNION 1X RSLVR P1		
J 1-K•	E 4-BB	A 24R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 1-L	J 3-P	A 10L (27)	SCT TRUNNION 1X RSLVR S2		
J 1-M	J 3-R	A 10R (28)	SCT TRUNNION 1X RSLVR S4		
J 1-M•	E 5-BB	A 29L (8)	400 CPS VARIABLE ILL PWR		
J 1-N•	E 6-BB	A 29R (9)	400 CPS LO		
J 1-P	J 3-M•	A 10Y (29)	SHIELD		
J 1-P•	J 3-CC	A 1L (30)	TRACKER X DRIVE BUFF HI		
J 1-PP	J 3-NN	A 32 (31)	400 CPS SHIELD GROUND		
J 1-Q•	J 3-DD	A 1R (32)	TRACKER X DRIVE BUFF LO		
J 1-R	J 3-B•	A 11L (33)	SCT TRUNNION TACH HI		
J 1-R•	J 3-T•	A 2L (34)	TRACKER X ERROR HI		
J 1-S	J 3-C•	A 11R (35)	SCT TRUNNION TACH LO		
J 1-S•	J 3-U•	A 2R (36)	TRACKER X ERROR LO		
J 1-T	J 3-G	A 12Y (37)	SCT SHAFT MOTOR PH 1		
J 1-U	J 3-H	A 12L (38)	SCT SHAFT MOTOR PH 2		
J 1-V	K 6-4	A 13 (39)	0 VDC OPTICS		
J 1-W	K 6-1	A 14 (40)	SCT SHAFT DRIVE DISABLE		
J 1-W•	J 3-R•	A 3L (41)	TRACKER Y ERROR HI		
J 1-X	K6-5	A 15 (42)	0 VDC OPTICS		
J 1-X•	J 3-S•	A 3R (43)	TRACKER Y ERROR LO		
J 1-Y•	J 3-AA	A 4L (44)	TRACKER Y DRIVE BUFF HI		
J 1-Z•	J 3-BB	A 4R (45)	TRACKER Y DRIVE BUFF LO		
	J 2 CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1				
J 2-A•	E11-BB	B 20 (7)	0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 10 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1				
J 2-AA	K 1- 1	B 6 (46)	SXT SHAFT DRIVE ENABLE		
J 2-B•	J 4-W	B 17L (47)	SXT TRUNNION TACH HI		
J 2-BB	K 2- 1	B 9 (48)	SXT TRUNNION DRIVE ENABLE		
J 2-C•	J 4-X	B 17R (49)	SXT TRUNNION TACH LO		
J 2-CC	K 2- 5	B 8 (50)	0 VDC OPTICS		
J 2-D	J 4-D	B 4Y (51)	SXT SHAFT MOTOR PH 1		
J 2-D•	E11-BB	B 21 (7)	0 VDC OPTICS		
J 2-E	J 4-E	B 4L (52)	SXT SHAFT MOTOR PH 2		
J 2-E•	J 4-B•	B 22L (53)	SXT TRUNNION 64X RSLVR S4		
J 2-F	K 1- 4	B 5 (54)	0 VDC OPTICS		
J 2-F•	J 4-C•	B 22R (55)	SXT TRUNNION 64X RSLVR S2		
J 2-G•	J 4-D•	B 23L (56)	SXT TRUNNION 64X RSLVR S1		
J 2-H	J 4-G	B 10L (57)	SXT SHAFT TACH HI		
J 2-H•	J 4-E•	B 23R (58)	SXT TRUNNION 64X RSLVR S3		
J 2-I•	J 4-G•	B 24L (59)	SXT TRUNNION 1X RSLVR S2		
J 2-J	J 4-H	B 10R (60)	SXT SHAFT TACH LO		
J 2-J•	J 4-H•	B 24R (61)	SXT TRUNNION 1X RSLVR S4		
J 2-K	J 4-J	B 11L (62)	SXT SHAFT 16X RSLVR S4		
J 2-K•	J 4-J•	B 25L (63)	SXT TRUNNION 1X RSLVR S1		
J 2-KK	J 4-MM	B 2L (64)	PHOTOMETER SIGNAL HI		
J 2-L	J 4-K	B 11R (65)	SXT SHAFT 16X RSLVR S2		
J 2-LL	J 4-NN	B 2R (66)	PHOTOMETER SIGNAL LO		
J 2-M	J 4-L	B 12L (67)	SXT SHAFT 16X RSLVR S1		
J 2-M•	J 4-K•	B 25R (68)	SXT TRUNNION 1X RSLVR S3		
J 2-MM	J 4-EE	B 3L (69)	STAR PRESENCE HI		
J 2-N	J 4-M	B 12R (71)	SXT SHAFT 16X RSLVR S3		
J 2-N•	E 9-BB	B 31L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 2-NN	J 4-FF	B 3R (72)	STAR PRESENCE LO		
J 2-P	J 4-N	B 13L (73)	SXT SHAFT 1/2 X RSLVR S1		
J 2-P•	E10-BB	B 31R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 2-PP	J 4-PP	B 32Y (70)	400 CPS SHIELD GROUND		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 11 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1				
J 2-Q•	J 4-Y•	B 33L (74)	800 CPS 28 V 5 PCT HI OPTICS		
J 2-R	J 4-P	B 13R (75)	SXT SHAFT 1/2 X RSLVR S3		
J 2-R•	J 4-Z•	B 33R (76)	800 CPS 28 V 5 PCT LO OPTICS		
J 2-S	J 4-R	B 14L (77)	SXT SHAFT 1/2 X RSLVR S4		
J 2-S•	J 4-W•	B 32L (78)	400 CPS VARIABLE ILL PWR		
J 2-T	J 4-S	B 14R (79)	SXT SHAFT 1/2 X RSLVR S2		
J 2-T•	J 4-X•	B 32R (80)	400 CPS LO		
J 2-U	J 4-T	B 15Y (81)	SXT TRUNNION MOTOR PH 1		
J 2-V	J 4-U	B 15L (82)	SXT TRUNNION MOTOR PH 2		
J 2-W	K 2- 4	B 16 (83)	0 VDC OPTICS		
J 2-W•	J 4-AA	B 1R (84)	+28 VDC OPTICS TRACKER PWR		
J 2-X	J 5-F	B 35 (85)	STAR SIMULATOR SIG HI		
J 2-X•	J 4-BB	B 1L (86)	0 VDC OPTICS		
J 2-Y	J 5-G	B 36 (87)	STAR SIMULATOR SIG LO		
J 2-Y•	J 4-V•	B 22Y (88)	SHIELD		
J 2-Z	J 5-H	B 37 (89)	SHIELD		
J 2-Z•	J 4-I•	B 11Y (90)	SHIELD		
	J 3 CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-A•	E 7-B	A 33 (10)	0 VDC OPTICS		
J 3-AA	J 1-Y•	A 4L (44)	TRACKER Y DRIVE BUFF HI		
J 3-B•	J 1-R	A 11L (33)	SCT TRUNNION TACH HI		
J 3-BB	J 1-Z•	A 4R (45)	TRACKER Y DRIVE BUFF LO		
J 3-C•	J 1-S	A 11R (35)	SCT TRUNNION TACH LO		
J 3-CC	J 1-P•	A 1L (30)	TRACKER X DRIVE BUFF HI		
J 3-D	J 1-D	A 7Y (17)	SCT TRUNNION MOTOR PH 1		
J 3-D•	J 1-B•	A 17L (13)	SCT SHAFT TACH HI		
J 3-EE	J 1-CC	A 6 (16)	+28 VDC OPTICS TRACKER PWR		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 12 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-DD	J 1-Q•	A 1R (32)	TRACKER X DRIVE BUFF LO		
J 3-E	J 1-E	A 7R (19)	SCT TRUNNION MOTOR PH 2		
J 3-E•	J 1-C•	A 17R (15)	SCT SHAFT TACH LO		
J 3-EE	J 1-CC	A 6 (16)	+28 VDC OPTICS TRACKER PWR		
J 3-F	J 1-F	A 7L (21)	0 VDC OPTICS		
J 3-G	J 1-T	A 12Y (37)	SCT SHAFT MOTOR PH 1		
J 3-G•	J 1-F•	A 18Y (22)	SHIELD		
J 3-H	J 1-U	A 12L (38)	SCT SHAFT MOTOR PH 2		
J 3-H•	J 1-D•	A 18L (18)	SCT SHAFT 1X RSLVR S2		
J 3-I•	J 1-E•	A 18R (20)	SCT SHAFT 1X RSLVR S4		
J 3-J	K 6-6	A 12R (91)	0 VDC OPTICS		
J 3-JJ	E 5-B	A 27L (8)	400 CPS VARIABLE ILL PWR		
J 3-K	J 1-G	A 8L (23)	SCT TRUNNION 1X RSLVR P2		
J 3-KK	E 6-B	A 27R (9)	400 CPS LO		
J 3-L	J 1-H	A 8R (24)	SCT TRUNNION 1X RSLVR P4		
J 3-LL	E 5-B	A 28L (8)	400 CPS VARIABLE ILL PWR		
J 3-M	J 1-J	A 9L (25)	SCT TRUNNION 1X RSLVR P3		
J 3-M•	J 1-P	A 10Y (29)	SHIELD		
J 3-MM	E 6-B	A 28R (9)	400 CPS LO		
J 3-N	J 1-K	A 9R (26)	SCT TRUNNION 1X RSLVR P1		
J 3-NN	J 1-PP	A 32 (31)	400 CPS SHIELD GROUND		
J 3-P	J 1-L	A 10L (27)	SCT TRUNNION 1X RSLVR S2		
J 3-P•	E 7-B	A 16 (10)	0 VDC OPTICS		
J 3-PP	E 1	A 26 (1)	CHASSIS GROUND		
J 3-Q•	E 1	A 25 (1)	CHASSIS GROUND		
J 3-R	J 1-M	A 10R (28)	SCT TRUNNION 1X RSLVR S4		
J 3-R•	J 1-W•	A 3L (41)	TRACKER Y ERROR HI		
J 3-S	E 3-B	A 22L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 3-S•	J 1-X•	A 3R (43)	TRACKER Y ERROR LO		
J 3-T	E 4-B	A 22R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 3-T•	J 1-R•	A 2L (34)	TRACKER X ERROR HI		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 13 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-U	E 3-B	A 23L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 3-U*	J 1-S*	A 2R (36)	TRACKER X ERROR LO		
J 3-V	E 4-B	A 23R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 3-V*	J 1-AA	A 5L (12)	TRACKER PREAMP OUTPUT BUFF HI		
J 3-W	E 8-B	A 19L (11)	800 CPS 28 V 1 PCT HI OPTICS		
J 3-W*	J 1-BB	A 5R (14)	TRACKER PREAMP OUTPUT BUFF LO		
J 3-X	E 2-B	A 19R (2)	800 CPS 28 V 1 PCT LO OPTICS		
J 3-Y	E 8-B	A 20L (11)	800 CPS 28 V 1 PCT HI OPTICS		
J 3-Z	E 2-B	A 20R (2)	800 CPS 28 V 1 PCT LO OPTICS		
J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-AA	J 2-W*	B 1R (84)	+28 VDC OPTICS TRACKER PWR		
J 4-B*	J 2-E*	B 22L (53)	SXT TRUNNION 64X RSLVR S4		
J 4-B*	J 2-X*	B 1L (86)	0 VDC OPTICS		
J 4-C*	J 2-F*	B 22R (55)	SXT TRUNNION 64X RSLVR S2		
J 4-CC	E1	B 34 (1)	CHASSIS GROUND		
J 4-D	J 2-D	B 4Y (51)	SXT SHAFT MOTOR PH 1		
J 4-D*	J 2-G*	B 23L (56)	SXT TRUNNION 64X RSLVR S1		
J 4-DD	E11-B	B 19 (7)	0 VDC OPTICS		
J 4-E	J 2-E	B 4L (52)	SXT SHAFT MOTOR PH 2		
J 4-E*	J 2-H*	B 23R (58)	SXT TRUNNION 64X RSLVR S3		
J 4-EE	J 2-MM	B 3L (69)	STAR PRESENCE HI		
J 4-F	K 1- 7	B 4R (92)	0 VDC OPTICS		
J 4-FF	J 2-NN	B 3R (72)	STAR PRESENCE LO		
J 4-G	J 2-H	B 10L (57)	SXT SHAFT TACH HI		
J 4-G*	J 2-I*	B 24L (59)	SXT TRUNNION 1X RSLVR S2		
J 4-H	J 2-J	B 10R (60)	SXT SHAFT TACH LO		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 14 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-H*	J 2-J*	B 24R (61)	SXT TRUNNION 1X RSLVR S4		
J 4-HH	E 9-B	B 26L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-I*	J 2-Z*	B 11Y (90)	SHIELD		
J 4-J	J 2-K	B 11L (62)	SXT SHAFT 16X RSLVR S4		
J 4-J*	J 2-K*	B 25L (63)	SXT TRUNNION 1X RSLVR S1		
J 4-JJ	E10-B	B 26R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-K	J 2-L	B 11R (65)	SXT SHAFT 16X RSLVR S2		
J 4-K*	J 2-M*	B 25R (68)	SXT TRUNNION 1X RSLVR S3		
J 4-KK	E 9-B	B 30L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-L	J 2-M	B 12L (67)	SXT SHAFT 16X RSLVR S1		
J 4-LL	E10-B	B 30R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-M	J 2-N	B 12R (71)	SXT SHAFT 16X RSLVR S3		
J 4-MM	J 2-KK	B 2L (64)	PHOTOMETER SIGNAL HI		
J 4-N	J 2-P	B 13L (73)	SXT SHAFT 1/2 X RSLVR S1		
J 4-NN	J 2-LL	B 2R (66)	PHOTOMETER SIG LO		
J 4-P	J 2-R	B 13R (75)	SXT SHAFT 1/2 X RSLVR S3		
J 4-P*	E 9-B	B 27L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-PP	J 2-PP	B 32Y (70)	400 CPS SHIELD GROUND		
J 4-Q*	E10-B	B 27R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-R	J 2-S	B 14L (77)	SXT SHAFT 1/2 X RSLVR S4		
J 4-R*	E 2-B	B 28L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-S	J 2-T	B 14R (79)	SXT SHAFT 1/2 X RSLVR S2		
J 4-S*	E10-B	B 28R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-T	J 2-U	B 15Y (81)	SXT TRUNNION MOTOR PH 1		
J 4-T*	E 9-B	B 29L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-U	J 2-V	B 15L (82)	SXT TRUNNION MOTOR PH 2		
J 4-U*	E10-B	B 29R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-V	K 2- 7	B 15R (93)	0 VDC OPTICS		
J 4-V*	J 2-Y*	B 22Y (88)	SHIELD		
J 4-W	J 2-B*	B 17L (47)	SXT TRUNNION TACH HI		
J 4-W*	J 2-S*	B 32L (78)	400 CPS VARIABLE ILL PWR		

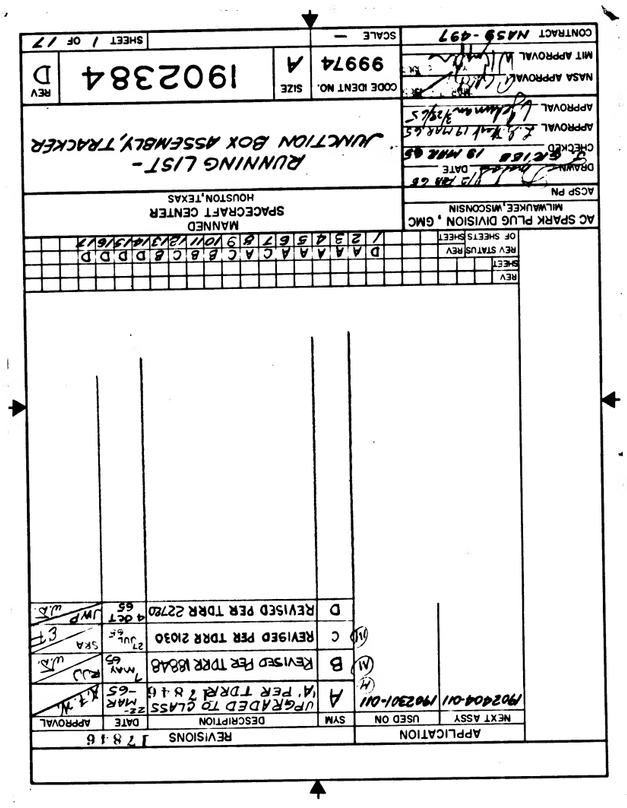
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 15 OF 17

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-X	J 2-C*	B 17R (49)	SXT TRUNNION TACH LO		
J 4-X*	J 2-T*	B 32R (80)	400 CPS LO		
J 4-Y	E11-B	B 18 (7)	0 VDC OPTICS		
J 4-Y*	J 2-Q*	B 33L (74)	800 CPS 28 V 5 PCT HI OPTICS		
J 4-Z*	J 2-R*	B 33R (76)	800 CPS 28 V 5 PCT LO OPTICS		
J 5	CONNECTOR-RECEPTACLE, CRIMP TYPE PIN CONTACT MS3127E14-15P (1897115-150) FIGURE 2				
J 5-A	E1	B 38 (1)	CHASSIS GROUND		
J 5-F	J 2-X	B 35 (85)	STAR SIMULATOR SIG HI		
J 5-G	J 2-Y	B 36 (87)	STAR SIMULATOR SIG LO		
J 5-H	J 2-Z	B 37 (89)	SHIELD		
K 1	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 1- 1	J 2-AA	B 6 (46)	SXT SHAFT DRIVE ENABLE		
K 1- 4	J 2-F	B 5 (54)	0 VDC OPTICS		
K 1- 5	K 2- 5	B 7 (50)	0 VDC OPTICS		
K 1- 7	J 4-F	B 4R (92)	0 VDC OPTICS		
K 2	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 2- 1	J 2-BB	B 9 (48)	SXT TRUNNION DRIVE ENABLE		
K 2- 4	J 2-W	B 16 (83)	0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 16 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) K 2	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 2- 5	K 1- 5	B 7 (50)	0 VDC OPTICS		
K 2- 5	J 2-CC	B 8 (50)	0 VDC OPTICS		
K 2- 7	J 4-V	B 15R (93)	0 VDC OPTICS		
K 6	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 6-1	J 1-W	A 14 (40)	SCT SHAFT DRIVE DISABLE		
K 6-4	J 1-V	A 13 (39)	0 VDC OPTICS		
K 6-5	J 1-X	A 15 (42)	0 VDC OPTICS		
K 6-6	J 3-J	A 12R (91)	0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR • A	SHEET 17 of 17


RUNNING LIST-
JUNCTION BOX ASSEMBLY, TRACKER
1902384
A
9974
SCALE —
SHEET 1 OF 17
CONTRACT NAS9-497
MIT APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL
CHECKED
DRAWN
DATE
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
REVISIONS
DESCRIPTION
DATE
APPROVAL
UPGRADED TO CLASS A, PER TDRR 1846
REVISED PER TDRR 1884G
REVISED PER TDRR 2103G
REVISED PER TDRR 2276G
APPLICATION
NEXT ASSY
USED ON
1902604-01
1902301-01

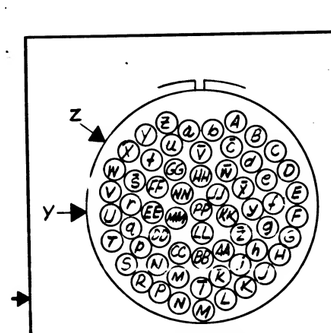


FIGURE 1

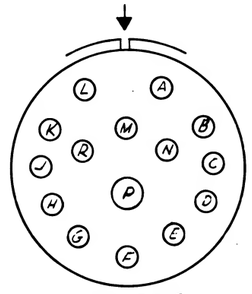


FIGURE 2

INSERT ARR	INSERT POSITIONS IN DEGREES		
	Y	Z	
-61	270°	324°	

INSERT ARR	INSERT POSITIONS IN DEGREES	
	NORMAL	
-15	0°	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384
		SHEET 2 OF 17



FIGURE 3

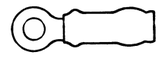


FIGURE 4

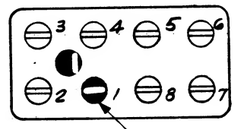


FIGURE 5

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION	NASA DRAWING NO.
	A	1902384
		SHEET 3 OF 17

PENNANT NOTE	GENERAL NOTES
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN -- PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	A LETTER WITH AN ASTERISK, INDICATES A LOWER CASE LETTER.
5	WIRING END OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT-FACE OF PIN CONNECTORS SHOWN, SOCKET CONNECTORS OPPOSITE.
6	UNLESS OTHERWISE SPECIFIED, ALL CONDUCTORS ARE WHITE.
7	DRAWINGS FOR REFERENCE --- 1902404-011 JUNCTION BOX ASSEMBLY, TRACKER 1902385 WIRING HARNESS A 1902383 WIRING HARNESS B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902384
SCALE - NONE	REV LTR A*	SHEET 4 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
			E 1 TERMINAL-LUG, CRIMP STYLE 1015902-49 FIGURE 4		
E 1-2	J 4-CC	B 34	(1) CHASSIS GROUND		
E 1-3	J 5-A	B 38	(1) CHASSIS GROUND		
E 1-6	J 3-Q*	A 25	(1) CHASSIS GROUND		
E 1-7	J 3-PP	A 26	(1) CHASSIS GROUND		
			E 2-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 2-B	J 3-X	A 19R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
E 2-B	J 3-Z	A 20R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
			E 2-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 2-BB	J 1-I*	A 21R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
			E 3-B SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 3-B	J 3-S	A 22L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
E 3-B	J 3-U	A 23L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
			E 3-BB SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 3-BB	J 1-J*	A 24L	(4) 800 CPS 28 V 5 PCT LO OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE	1902384
SCALE - NONE	REV LTR A*	SHEET 5 OF 17

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
		E 4-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 4-B	J 3-T	A 22R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
E 4-B	J 3-V	A 23R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
		E 4-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 4-BB	J 1-K•	A 24R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
		E 5-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 5-B	J 3-JJ	A 27L	(8) 400 CPS VARIABLE ILL PWR		
E 5-B	J 3-LL	A 28L	(8) 400 CPS VARIABLE ILL PWR		
		E 5-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 5-BB	J 1-M•	A 29L	(8) 400 CPS VARIABLE ILL PWR		
		E 6-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 6-B	J 3-KK	A 27R	(9) 400 CPS LO		
E 6-B	J 3-MM	A 28R	(9) 400 CPS LO		

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
		E 6-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 6-BB	J 1-N•	A 29R	(9) 400 CPS LO		
		E 7-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 7-B	J 3-P•	A 16	(10) 0 VDC OPTICS		
~~E 7-B~~	~~J 1-DD~~	~~A 31~~	~~(10) 0 VDC OPTICS~~		
E 7-B	J 3-A•	A 33	(10) 0 VDC OPTICS		
		E 7-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 7-BB	J 1-EE	A 30	(10) 0 VDC OPTICS		
		E 8-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 8-B	J 3-W	A 19L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
E 8-B	J 3-Y	A 20L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
		E 8-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 8-BB	J 1-H•	A 21L	(11) 800 CPS 28 V 1 PCT HI OPTICS		

FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
		E 9-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-B	J 4-HH	B 26L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-P•	B 27L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-R•	B 28L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-T•	B 29L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
E 9-B	J 4-KK	B 30L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
		E 9-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E 9-BB	J 2-N•	B 31L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
		E10-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-B	J 4-JJ	B 26R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-Q•	B 27R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-S•	B 28R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-U•	B 29R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
E10-B	J 4-LL	B 30R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
		E10-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E10-BB	J 2-P•	B 31R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
		E11-B	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-Y	B 18	(7) 0 VDC OPTICS		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.)	E11-B		SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-B	J 4-DD	B 19	(7) 0 VDC OPTICS		
		E11-BB	SPLICE-REDUCER, CRIMP STYLE 1016006-001 OR 1016006-002 FIG. 3		
E11-BB	J 2-A•	B 20	(7) 0 VDC OPTICS		
E11-BB	J 2-D•	B 21	(7) 0 VDC OPTICS		
		J 1	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1		
J 1-AA	J 3-V•	A 5L	(12) TRACKER PREAMP OUTPUT BUFF HI		
J 1-B•	J 3-D•	A 17L	(13) SCT SHAFT TACH HI		
J 1-BB	J 3-W•	A 5R	(14) TRACKER PREAMP OUTPUT BUFF LO		
J 1-C•	J 3-E•	A 17R	(15) SCT SHAFT TACH LO		
J 1-CC	J 3-EE	A 6	(16) +28 VDC OPTICS TRACKER PWR		
J 1-D	J 3-D	A 7Y	(17) SCT TRUNNION MOTOT PH 1		
J 1-D•	J 3-H•	A 18L	(18) SCT SHAFT 1X RSLVR S2		
~~J 1-DD~~	~~E 7-B~~	~~A 31~~	~~(10) 0 VDC OPTICS~~		
J 1-E	J 3-E	A 7R	(19) SCT TRUNNION MOTOR PH 2		
J 1-E•	J 3-I•	A 18R	(20) SCT SHAFT 1X RSLVR S4		
J 1-EE	E 7-BB	A 30	(10) 0 VDC OPTICS		
J 1-F	J 3-F	A 7L	(21) 0 VDC OPTICS		
J 1-F•	J 3-G•	A 18Y	(22) SHIELD		
J 1-G	J 3-K	A 8L	(23) SCT TRUNNION 1X RSLVR P2		
J 1-H	J 3-L	A 8R	(24) SCT TRUNNION 1X RSLVR P4		
J 1-H•	E 8-BB	A 21L	(11) 800 CPS 28 V 1 PCT HI OPTICS		
J 1-I•	E 2-BB	A 21R	(2) 800 CPS 28 V 1 PCT LO OPTICS		
J 1-J	J 3-M	A 9L	(25) SCT TRUNNION 1X RSLVR P3		
J 1-DD	J 3-FF	A 31	(94) 0 VDC OPTICS		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 1	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PZ(1897055-614) FIGURE 1				
J 1-J•	E 3-BB	A 24L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
J 1-K	J 3-N	A 9R	(26) SCT TRUNNION 1X RSLVR P1		
J 1-K•	E 4-BB	A 24R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
J 1-L	J 3-P	A 10L	(27) SCT TRUNNION 1X RSLVR S2		
J 1-M	J 3-R	A 10R	(28) SCT TRUNNION 1X RSLVR S4		
J 1-M•	E 5-BB	A 29L	(8) 400 CPS VARIABLE ILL PWR		
J 1-N•	E 6-BB	A 29R	(9) 400 CPS LO		
J 1-P	J 3-M•	A 10Y	(29) SHIELD		
J 1-P•	J 3-CC	A 1L	(30) TRACKER X DRIVE BUFF HI		
J 1-PP	J 3-NN	A 32	(31) 400 CPS SHIELD GROUND		
J 1-Q•	J 3-DD	A 1R	(32) TRACKER X DRIVE BUFF LO		
J 1-R	J 3-B•	A 11L	(33) SCT TRUNNION TACH HI		
J 1-R•	J 3-T•	A 2L	(34) TRACKER X ERROR HI		
J 1-S	J 3-C•	A 11R	(35) SCT TRUNNION TACH LO		
J 1-S•	J 3-U•	A 2R	(36) TRACKER X ERROR LO		
J 1-T	J 3-G	A 12Y	(37) SCT SHAFT MOTOR PH 1		
J 1-U	J 3-H	A 12L	(38) SCT SHAFT MOTOR PH 2		
J 1-V	K 6-4	A 13	(39) 0 VDC OPTICS		
J 1-W	K 6-1	A 14	(40) SCT SHAFT DRIVE DISABLE		
J 1-W•	J 3-R•	A 3L	(41) TRACKER Y ERROR HI		
J 1-X	K6-5	A 15	(42) 0 VDC OPTICS		
J 1-X•	J 3-S•	A 3R	(43) TRACKER Y ERROR LO		
J 1-Y•	J 3-AA	A 4L	(44) TRACKER Y DRIVE BUFF HI		
J 1-Z•	J 3-BB	A 4R	(45) TRACKER Y DRIVE BUFF LO		
J 2	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1				
J 2-A•	E11-BB	B 20	(7) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 10 OF 17

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1				
J 2-AA	K 1- 1	B 6	(46) SXT SHAFT DRIVE ENABLE		
J 2-B•	J 4-W	B 17L	(47) SXT TRUNNION TACH HI		
J 2-BB	K 2- 1	B 9	(48) SXT TRUNNION DRIVE ENABLE		
J 2-C•	J 4-X	B 17R	(49) SXT TRUNNION TACH LO		
J 2-CC	K 2- 5	B 8	(50) 0 VDC OPTICS		
J 2-D	J 4-Q	B 4Y	(51) SXT SHAFT MOTOR PH 1		
J 2-D•	E11-BB	B 21	(7) 0 VDC OPTICS		
J 2-E	J 4-E	B 4L	(52) SXT SHAFT MOTOR PH 2		
J 2-E•	J 4-B•	B 22L	(53) SXT TRUNNION 64X RSLVR S4		
J 2-F	K 1- 4	B 5	(54) 0 VDC OPTICS		
J 2-F•	J 4-C•	B 22R	(55) SXT TRUNNION 64X RSLVR S2		
J 2-G•	J 4-D•	B 23L	(56) SXT TRUNNION 64X RSLVR S1		
J 2-H	J 4-G	B 10L	(57) SXT SHAFT TACH HI		
J 2-H•	J 4-E•	B 23R	(58) SXT TRUNNION 64X RSLVR S3		
J 2-I•	J 4-G•	B 24L	(59) SXT TRUNNION 1X RSLVR S2		
J 2-J	J 4-H	B 10R	(60) SXT SHAFT TACH LO		
J 2-J•	J 4-H•	B 24R	(61) SXT TRUNNION 1X RSLVR S4		
J 2-K	J 4-J	B 11L	(62) SXT SHAFT 16X RSLVR S4		
J 2-K•	J 4-J•	B 25L	(63) SXT TRUNNION 1X RSLVR S1		
J 2-KK	J 4-MM	B 2L	(64) PHOTOMETER SIGNAL HI		
J 2-L	J 4-K	B 11R	(65) SXT SHAFT 16X RSLVR S2		
J 2-LL	J 4-NN	B 2R	(66) PHOTOMETER SIGNAL LO		
J 2-M	J 4-L	B 12L	(67) SXT SHAFT 16X RSLVR S1		
J 2-M•	J 4-K•	B 25R	(68) SXT TRUNNION 1X RSLVR S3		
J 2-MM	J 4-EE	B 3L	(69) STAR PRESENCE HI		
J 2-N	J 4-M	B 12R	(71) SXT SHAFT 16X RSLVR S3		
J 2-N•	E 9-BB	B 31L	(3) 800 CPS 28 V 1 PCT HI OPTICS		
J 2-NN	J 4-FF	B 3R	(72) STAR PRESENCE LO		
J 2-P	J 4-N	B 13L	(73) SXT SHAFT 1/2 X RSLVR S1		
J 2-P•	E10-BB	B 31R	(5) 800 CPS 28 V 1 PCT LO OPTICS		
J 2-PP	J 4-PP	B 32Y	(70) 400 CPS SHIELD GROUND		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 11 OF 17

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 2	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT MS3127E24-61PY(1897055-613) FIGURE 1				
J 2-Q•	J 4-Y•	B 33L	(74) 800 CPS 28 V 5 PCT HI OPTICS		
J 2-R	J 4-P	B 13R	(75) SXT SHAFT 1/2 X RSLVR S3		
J 2-R•	J 4-Z•	B 33R	(76) 800 CPS 28 V 5 PCT LO OPTICS		
J 2-S	J 4-R	B 14L	(77) SXT SHAFT 1/2 X RSLVR S4		
J 2-S•	J 4-W•	B 32L	(78) 400 CPS VARIABLE ILL PWR		
J 2-T	J 4-S	B 14R	(79) SXT SHAFT 1/2 X RSLVR S2		
J 2-T•	J 4-X•	B 32R	(80) 400 CPS LO		
J 2-U	J 4-T	B 15Y	(81) SXT TRUNNION MOTOR PH 1		
J 2-V	J 4-U	B 15L	(82) SXT TRUNNION MOTOR PH 2		
J 2-W	K 2- 4	B 16	(83) 0 VDC OPTICS		
J 2-W•	J 4-AA	B 1R	(84) +28 VDC OPTICS TRACKER PWR		
J 2-X	J 5-F	B 35	(85) STAR SIMULATOR SIG HI		
J 2-X•	J 4-BB	B 1L	(86) 0 VDC OPTICS		
J 2-Y	J 5-G	B 36	(87) STAR SIMULATOR SIG LO		
J 2-Y•	J 4-V•	B 22Y	(88) SHIELD		
J 2-Z	J 5-H	B 37	(89) SHIELD		
J 2-Z•	J 4-I•	B 11Y	(90) SHIELD		
J 3	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-A•	E 7-B	A 33	(10) 0 VDC OPTICS		
J 3-AA	J 1-Y•	A 4L	(44) TRACKER Y DRIVE BUFF HI		
J 3-B•	J 1-R	A 11L	(33) SCT TRUNNION TACH HI		
J 3-BB	J 1-Z•	A 4R	(45) TRACKER Y DRIVE BUFF LO		
J 3-C•	J 1-S	A 11R	(35) SCT TRUNNION TACH LO		
J 3-CC	J 1-P•	A 1L	(30) TRACKER X DRIVE BUFF HI		
J 3-D	J 1-D	A 7Y	(17) SCT TRUNNION MOTOR PH 1		
J 3-D•	J 1-B•	A 17L	(13) SCT SHAFT TACH HI		
J 3-FF	J 1-CC	A 3	(94) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR C	SHEET 12 OF 17

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-DD	J 1-Q•	A 1R	(32) TRACKER X DRIVE BUFF LO		
J 3-E	J 1-E	A 7R	(19) SCT TRUNNION MOTOR PH 2		
J 3-E•	J 1-C•	A 17R	(15) SCT SHAFT TACH LO		
J 3-EE	J 1-CC	A 6	(16) +28 VDC OPTICS TRACKER PWR		
J 3-F	J 1-F	A 7L	(21) 0 VDC OPTICS		
J 3-G	J 1-T	A 12Y	(37) SCT SHAFT MOTOR PH 1		
J 3-G•	J 1-F•	A 18Y	(22) SHIELD		
J 3-H	J 1-U	A 12L	(38) SCT SHAFT MOTOR PH 2		
J 3-H•	J 1-D•	A 18L	(18) SCT SHAFT 1X RSLVR S2		
J 3-I•	J 1-E•	A 18R	(20) SCT SHAFT 1X RSLVR S4		
J 3-J	K 6-6	A 12R	(91) 0 VDC OPTICS		
J 3-JJ	E 5-B	A 27L	(8) 400 CPS VARIABLE ILL PWR		
J 3-K	J 1-G	A 8L	(23) SCT TRUNNION 1X RSLVR P2		
J 3-KK	E 6-B	A 27R	(9) 400 CPS LO		
J 3-L	J 1-H	A 8R	(24) SCT TRUNNION 1X RSLVR P4		
J 3-LL	E 5-B	A 28L	(8) 400 CPS VARIABLE ILL PWR		
J 3-M	J 1-J	A 9L	(25) SCT TRUNNION 1X RSLVR P3		
J 3-M•	J 1-P	A 10Y	(29) SHIELD		
J 3-MM	E 6-B	A 28R	(9) 400 CPS LO		
J 3-N	J 1-K	A 9R	(26) SCT TRUNNION 1X RSLVR P1		
J 3-NN	J 1-PP	A 32	(31) 400 CPS SHIELD GROUND		
J 3-P	J 1-L	A 10L	(27) SCT TRUNNION 1X RSLVR S2		
J 3-P•	E 7-B	A 16	(10) 0 VDC OPTICS		
J 3-PP	E 1	A 26	(1) CHASSIS GROUND		
J 3-Q•	E 1	A 25	(1) CHASSIS GROUND		
J 3-R	J 1-M	A 10R	(28) SCT TRUNNION 1X RSLVR S4		
J 3-R•	J 1-W•	A 3L	(41) TRACKER Y ERROR HI		
J 3-S	E 3-B	A 22L	(4) 800 CPS 28 V 5 PCT HI OPTICS		
J 3-S•	J 1-X•	A 3R	(43) TRACKER Y ERROR LO		
J 3-T	E 4-B	A 22R	(6) 800 CPS 28 V 5 PCT LO OPTICS		
J 3-T•	J 1-R•	A 2L	(34) TRACKER X ERROR HI		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE-NONE	REV LTR B	SHEET 13 OF 17

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 3	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SY(1897056-613) FIGURE 1				
J 3-U	E 3-B	A 23L (4)	800 CPS 28 V 5 PCT HI OPTICS		
J 3-U•	J 1-S•	A 2R (36)	TRACKER X ERROR LO		
J 3-V	E 4-B	A 23R (6)	800 CPS 28 V 5 PCT LO OPTICS		
J 3-V•	J 1-AA	A 5L (12)	TRACKER PREAMP OUTPUT BUFF HI		
J 3-W	E 8-B	A 19L (11)	800 CPS 28 V 1 PCT HI OPTICS		
J 3-W•	J 1-BB	A 5R (14)	TRACKER PREAMP OUTPUT BUFF LO		
J 3-X	E 2-B	A 19R (2)	800 CPS 28 V 1 PCT LO OPTICS		
J 3-Y	E 8-B	A 20L (11)	800 CPS 28 V 1 PCT HI OPTICS		
J 3-Z	E 2-B	A 20R (2)	800 CPS 28 V 1 PCT LO OPTICS		
J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-AA	J 2-W•	B 1R (84)	+28 VDC OPTICS TRACKER PWR		
J 4-A•	J 2-F•	B 22L (53)	SXT TRUNNION 64X RSLVR S4		
J 4-BB	J 2-X•	B 1L (86)	0 VDC OPTICS		
J 4-C•	J 2-F•	B 22R (55)	SXT TRUNNION 64X RSLVR S2		
J 4-CC	E1	B 34 (1)	CHASSIS GROUND		
J 4-D	J 2-D	B 4Y (51)	SXT SHAFT MOTOR PH 1		
J 4-D•	J 2-G•	B 23L (56)	SXT TRUNNION 64X RSLVR S1		
J 4-DD	E11-B	B 19 (71)	0 VDC OPTICS		
J 4-E	J 2-E	B 4L (52)	SXT SHAFT MOTOR PH 2		
J 4-E•	J 2-H•	B 23R (58)	SXT TRUNNION 64X RSLVR S3		
J 4-EE	J 2-MM	B 3L (69)	STAR PRESENCE HI		
J 4-F	K 1-~~3~~6	B 4R (92)	0 VDC OPTICS		
J 4-FF	J 2-NN	B 3R (72)	STAR PRESENCE LO		
J 4-G	J 2-H	B 10L (57)	SXT SHAFT TACH HI		
J 4-G•	J 2-I•	B 24L (59)	SXT TRUNNION 1X RSLVR S2		
J 4-H	J 2-J	B 10R (60)	SXT SHAFT TACH LO		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE - NONE	REV LTR ~~3~~ D	SHEET 14 OF 17

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-H•	J 2-J•	B 24R (61)	SXT TRUNNION 1X RSLVR S4		
J 4-HH	E 9-B	B 26L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-I•	J 2-Z•	B 11Y (90)	SHIELD		
J 4-J	J 2-K	B 11L (62)	SXT SHAFT 16X RSLVR S4		
J 4-J•	J 2-K•	B 25L (63)	SXT TRUNNION 1X RSLVR S1		
J 4-JJ	E10-B	B 26R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-K	J 2-L	B 11R (65)	SXT SHAFT 16X RSLVR S2		
J 4-K•	J 2-M•	B 25R (66)	SXT TRUNNION 1X RSLVR S3		
J 4-KK	E 9-B	B 30L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-L	J 2-M	B 12L (67)	SXT SHAFT 16X RSLVR S1		
J 4-LL	E10-B	B 30R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-M	J 2-N	B 12R (71)	SXT SHAFT 16X RSLVR S3		
J 4-MM	J 2-KK	B 2L (64)	PHOTOMETER SIGNAL HI		
J 4-N	J 2-P	B 13L (73)	SXT SHAFT 1/2 X RSLVR S1		
J 4-NN	J 2-LL	B 2R (66)	PHOTOMETER SIG LO		
J 4-P	J 2-R	B 13R (75)	SXT SHAFT 1/2 X RSLVR S3		
J 4-P•	E 9-B	B 27L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-PP	J 2-PP	B 32Y (70)	400 CPS SHIELD GROUND		
J 4-Q•	E10-B	B 27R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-R	J 2-S	B 14L (77)	SXT SHAFT 1/2 X RSLVR S4		
J 4-R•	E 2-B	B 28L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-S	J 2-T	B 14R (79)	SXT SHAFT 1/2 X RSLVR S2		
J 4-S•	E10-B	B 28R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-T	J 2-U	B 15Y (81)	SXT TRUNNION MOTOR PH 1		
J 4-T•	E 9-B	B 29L (3)	800 CPS 28 V 1 PCT HI OPTICS		
J 4-U	J 2-V	B 15L (82)	SXT TRUNNION MOTOR PH 2		
J 4-U•	E10-B	B 29R (5)	800 CPS 28 V 1 PCT LO OPTICS		
J 4-V	K 2-~~3~~6	B 15R (93)	0 VDC OPTICS		
J 4-V•	J 2-Y•	B 22Y (88)	SHIELD		
J 4-W	J 2-B•	B 17L (47)	SXT TRUNNION TACH HI		
J 4-W•	J 2-S•	B 32L (78)	400 CPS VARIABLE ILL PWR		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE - NONE	REV LTR ~~3~~ D	SHEET 15 OF 17

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) J 4	CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT MS3127E24-61SZ (1897056-614) FIGURE 1				
J 4-X	J 2-C•	B 17R (49)	SXT TRUNNION TACH LO		
J 4-X•	J 2-T•	B 32R (80)	400 CPS LO		
J 4-Y	E11-B	B 18 (7)	0 VDC OPTICS		
J 4-Y•	J 2-Q•	B 33L (74)	800 CPS 28 V 5 PCT HI OPTICS		
J 4-Z•	J 2-R•	B 33R (76)	800 CPS 28 V 5 PCT LO OPTICS		
J 5	CONNECTOR-RECEPTACLE, CRIMP TYPE PIN CONTACT MS3127E14-15P (1897115-150) FIGURE 2				
J 5-A	E1	B 38 (1)	CHASSIS GROUND		
J 5-F	J 2-X	B 35 (85)	STAR SIMULATOR SIG HI		
J 5-G	J 2-Y	B 36 (87)	STAR SIMULATOR SIG LO		
J 5-H	J 2-Z	B 37 (89)	SHIELD		
K 1	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 1- 1	J 2-AA	B 6 (46)	SXT SHAFT DRIVE ENABLE		
K 1- 4	J 2-F	B 5 (54)	0 VDC OPTICS		
K 1- 5	K 2- 5	B 7 (50)	0 VDC OPTICS		
K 1-~~3~~6	J 4-F	B 4R (92)	0 VDC OPTICS		
K 2	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 2- 1	J 2-BB	B 9 (48)	SXT TRUNNION DRIVE ENABLE		
K 2- 4	J 2-W	B 16 (83)	0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
SCALE - NONE	REV LTR ~~3~~ D	SHEET 16 OF 17

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FROM	TO	COND NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
(CONT.) K 2	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 2- 5	K 1- 5	B 7	(50) 0 VDC OPTICS		
K 2- 5	J 2-CC	B 8	(50) 0 VDC OPTICS		
K 2-~~3~~6	J 4-V	B 15R	(93) 0 VDC OPTICS		
K 6	RELAY, ELECTROMAGNETIC, SENSITIVE 1015832-318 FIGURE 5				
K 6-1	J 1-W	A 1L	(40) SCT SHAFT DRIVE DISABLE		
K 6-4	J 1-V	A 13	(39) 0 VDC OPTICS		
K 6-5	J 1-X	A 15	(42) 0 VDC OPTICS		
K 6-6	J 3-J	A 12R	(91) 0 VDC OPTICS		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902384
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APPLICATION		REVISIONS 17846			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902402-011	B	UPGRADED TO CLASS 'A' PER TDRR 17846	22-MAR-65	W.T.H.

| | | |

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206.
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). 12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002023.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER ~~MIL-STD-445~~ MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385	
SCALE-NONE	REV LTR • B		SHEET 2 OF 11

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NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO BE TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE - A1L AND A1R, A2L AND A2R, ETC.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385	
SCALE-NONE	REV LTR • B		SHEET 3 OF 11

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NOTE NUMBER	GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385	
SCALE-NONE	REV LTR • B		SHEET 4 OF 11

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SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902385-001	WIRE-NC1002181, TYPE I, CLASS 1, 20AWG, WHITE- FT. TOTAL LG.
	2	1	1902385-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE- FT. TOTAL LG.
	3	1	MS3127E24-61SZ	(1897056-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	7	1016006-001	SPLICE - REDUCER, CRIMP STYLE
17	5	7	1010490-200	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PY	(1897055-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	2	1015864-109	INSULATION-SLEEVING, ELECTRICAL
17	14	1	1015864-107	INSULATION-SLEEVING, ELECTRICAL

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385	
SCALE-NONE	REV LTR • B		SHEET 5 OF 11

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1L	2	J3-CC	1				.22	NO			
			J1-P•	7				.22	NO			
A	1R	2	J3-DD	1				.22	NO			
			J1-Q•	7				.22	NO			
A	2L	2	J3-T•	1				.22	NO			
			J1-R•	7				.22	NO			
A	2R	2	J3-U•	1				.22	NO			
			J1-S•	7				.22	NO			
A	3L	2	J3-R•	1				.22	NO			
			J1-W•	7				.22	NO			
A	3R	2	J3-S•	1				.22	NO			
			J1-X•	7				.22	NO			
A	4L	2	J3-AA	1				.22	NO			
			J1-Y•	7				.22	NO			
A	4R	2	J3-BB	1				.22	NO			
			J1-Z•	7				.22	NO			
A	5L	2	J3-V•	1				.22	NO			
			J1-AA	7				.22	NO			
A	5R	2	J3-W•	1				.22	NO			
			J1-BB	7				.22	NO			
A	6	2	J3-EE	1				.22	NO			
			J1-CC	7				.22	NO			
A	7L	1	J3-F	1				.22	NO			
			J1-F	7				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7R	1	J3-E	1				.22	NO			
			J1-E	7				.22	NO			
A	7Y	1	J3-D	1				.22	NO			
			J1-D	7				.22	NO			
A	8L	2	J3-K	1				.22	NO			
			J1-G	7				.22	NO			
A	8R	2	J3-L	1				.22	NO			
			J1-H	7				.22	NO			
A	9L	2	J3-M	1				.22	NO			
			J1-J	7				.22	NO			
A	9R	2	J3-N	1				.22	NO			
			J1-K	7				.22	NO			
A	10L	2	J3-P	1				.22	NO			
			J1-L	7				.22	NO			
A	10R	2	J3-R	1				.22	NO			
			J1-M	7				.22	NO			
A	10Y	2	J3-M•	1				.22	NO			
			J1-P	7				.22	NO			
A	11L	2	J3-B•	1				.22	NO			
			J1-R	7				.22	NO			
A	11R	2	J3-C•	1				.22	NO			
			J1-S	7				.22	NO			
A	12L	1	J3-H	1				.22	NO			
			J1-U	7				.22	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385

SCALE-NONE | REV LTR • B | SHEET 7 OF 11

MIL 2084 4-63

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12R	1	J3-J	1				.22	NO			
			K6-6	8				.25	YES		13	
A	12Y	1	J3-G	1				.22	NO			
			J1-T	7				.22	NO			
A	13	1	K6-4	8				.25	YES		13	
			J1-V	7				.22	NO			
A	14	2	K6-1	8				.25	YES		14	
			J1-W	7				.22	NO			
A	15	2	K6-5	8				.25	YES			
			J1-X	7				.22	NO			
A	16	1	J3-P•	1				.22	NO			
			E7-B	10				.38	NO			
A	17L	2	J3-D•	1				.22	NO			
			J1-B•	7				.22	NO			
A	17R	2	J3-E•	1				.22	NO			
			J1-C•	7				.22	NO			
A	18L	2	J3-H•	1				.22	NO			
			J1-D•	7				.22	NO			
A	18R	2	J3-I•	1				.22	NO			
			J1-E•	7				.22	NO			
A	18Y	2	J3-G•	1				.22	NO			
			J1-F•	7				.22	NO			
A	19L	2	J3-W	1				.22	NO			
			E8-B	12				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385

SCALE-NONE | REV LTR • B | SHEET 8 OF 11

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	19R	2	J3-X	1				.22	NO			
			E2-B	4				.38	NO			
A	20L	2	J3-Y	1				.22	NO			
			E8-B	12				.38	NO			
A	20R	2	J3-Z	1				.22	NO			
			E2-B	4				.38	NO			
A	21L	1	E8-BB	12				.38	NO			
			J1-H•	7				.22	NO			
A	21R	1	E2-BB	4				.38	NO			
			J1-I•	7				.22	NO			
A	22L	2	J3-S	1				.22	NO			
			E3-B	11				.38	NO			
A	22R	2	J3-T	1				.22	NO			
			E4-B	5				.38	NO			
A	23L	2	J3-U	1				.22	NO			
			E3-B	11				.38	NO			
A	23R	2	J3-V	1				.22	NO			
			E4-B	5				.38	NO			
A	24L	1	E3-BB	11				.38	NO			
			J1-J•	7				.22	NO			
A	24R	1	E4-BB	5				.38	NO			
			J1-K•	7				.22	NO			
A	25	1	J3-Q•	1				.22	NO			
			E1-6	2				.25	NO		6	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385

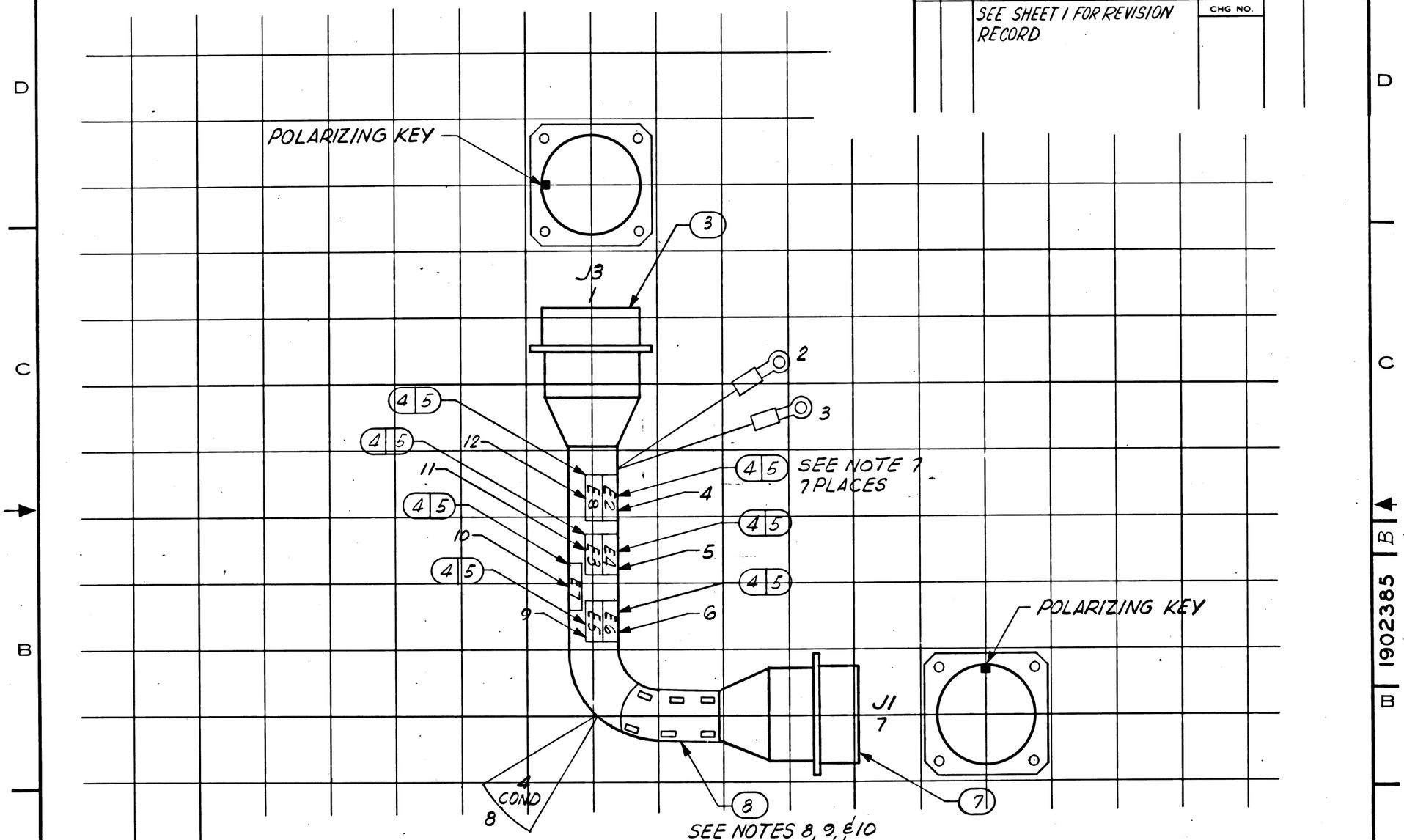
SCALE-NONE | REV LTR • B | SHEET 9 OF 11

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	1		J3-PP	1				.22	NO			
			E1-7	3				.25	NO		6	
A 27L	1		J3-JJ	1				.22	NO			
			E5-B	9				.38	NO			
A 27R	1		J3-KK	1				.22	NO			
			E6-B	6				.38	NO			
A 28L	1		J3-LL	1				.22	NO			
			E5-B	9				.38	NO			
A 28R	1		J3-MM	1				.22	NO			
			E6-B	6				.38	NO			
A 29L	1		E5-BB	9				.38	NO			
			J1-M*	7				.22	NO			
A 29R	1		E6-BB	6				.38	NO			
			J1-N*	7				.22	NO			
A 30	1		E7-BB	10				.38	NO			
			J1-EE	7				.22	NO			
A 31	1		E7-B	10				.38	NO			
			J1-DD	7				.22	NO			
A 32	1		J3-NN	1				.22	NO			
			J1-MM	7				.22	NO			
A 33	1		J3-A*	1				.22	NO			
			E7-B	10				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385
SCALE-NONE	REV LTR B	SHEET 10 OF 11

1902385

REVISIONS					17846
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD			



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	+ —	+ —
- —	- —	- —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN [illegible] DATE 12 FEB 65
CHECKED J. GRIEB 24 FEB 65
APPROVAL [illegible] 24 FEB 65
APPROVAL [illegible] 3/23/65
NASA APPROVAL [illegible] MAR 26 1965
MIT APPROVAL [illegible] MAR 26 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

CODE IDENT NO.	SIZE	
	C	1902385
SCALE FULL		SHEET 11 OF 11

MIL 1077C-P

1902385

APPLICATION		REVISIONS 17816			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902402-011 (M)	B	UPGRADED TO CLASS 'A' PER TDRR 17816	22-MAR-65	MJN MEM
		C	REVISED PER TDRR 18849	7 MAY 65	EM MEM

| | | |

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206.
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES2671). 12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002023.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO BE TWISTED TOGETHER WITH A LAY NO CREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE - A1L AND A1R, A2L AND A2R, ETC.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902385-001	WIRE-ND1002181, TYPE I, CLASS 1, 20AWG, WHITE- FT. TOTAL LG.
	2	1	1902385-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE- FT. TOTAL LG.
	3	1	MS3127E24-61SY	(1897056-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	7	1016006-001	SPLICE - REDUCER, CRIMP STYLE
17	5	7	1010490-200	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PZ	(1897055-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	2	1015864-109	INSULATION-SLEEVING, ELECTRICAL
17	14	1	1015864-107	INSULATION-SLEEVING, ELECTRICAL

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1L	2	J3-CC	1				.22	NO			
			J1-P*	7				.22	NO			
A	1R	2	J3-DD	1				.22	NO			
			J1-Q*	7				.22	NO			
A	2L	2	J3-T*	1				.22	NO			
			J1-R*	7				.22	NO			
A	2R	2	J3-U*	1				.22	NO			
			J1-S*	7				.22	NO			
A	3L	2	J3-R*	1				.22	NO			
			J1-W*	7				.22	NO			
A	3R	2	J3-S*	1				.22	NO			
			J1-X*	7				.22	NO			
A	4L	2	J3-AA	1				.22	NO			
			J1-Y*	7				.22	NO			
A	4R	2	J3-BB	1				.22	NO			
			J1-Z*	7				.22	NO			
A	5L	2	J3-V*	1				.22	NO			
			J1-AA	7				.22	NO			
A	5R	2	J3-W*	1				.22	NO			
			J1-BB	7				.22	NO			
A	6	2	J3-EE	1				.22	NO			
			J1-CC	7				.22	NO			
A	7L	1	J3-F	1				.22	NO			
			J1-F	7				.22	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7R	1	J3-E	1				.22	NO			
			J1-E	7				.22	NO			
A	7Y	1	J3-D	1				.22	NO			
			J1-D	7				.22	NO			
A	8L	2	J3-K	1				.22	NO			
			J1-G	7				.22	NO			
A	8R	2	J3-L	1				.22	NO			
			J1-H	7				.22	NO			
A	9L	2	J3-M	1				.22	NO			
			J1-J	7				.22	NO			
A	9R	2	J3-N	1				.22	NO			
			J1-K	7				.22	NO			
A	10L	2	J3-P	1				.22	NO			
			J1-L	7				.22	NO			
A	10R	2	J3-R	1				.22	NO			
			J1-M	7				.22	NO			
A	10Y	2	J3-M*	1				.22	NO			
			J1-P	7				.22	NO			
A	11L	2	J3-B*	1				.22	NO			
			J1-R	7				.22	NO			
A	11R	2	J3-C*	1				.22	NO			
			J1-S	7				.22	NO			
A	12L	1	J3-H	1				.22	NO			
			J1-U	7				.22	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12R	1	J3-J	1				.22	NO			
			K6-6	8				.25	YES		13	
A	12Y	1	J3-G	1				.22	NO			
			J1-T	7				.22	NO			
A	13	1	K6-4	8				.25	YES		13	
			J1-V	7				.22	NO			
A	14	2	K6-1	8				.25	YES		14	
			J1-W	7				.22	NO			
A	15	2	K6-5	8				.25	YES			
			J1-X	7				.22	NO			
A	16	1	J3-P*	1				.22	NO			
			E7-B	10				.38	NO			
A	17L	2	J3-D*	1				.22	NO			
			J1-B*	7				.22	NO			
A	17R	2	J3-E*	1				.22	NO			
			J1-C*	7				.22	NO			
A	18L	2	J3-H*	1				.22	NO			
			J1-D*	7				.22	NO			
A	18R	2	J3-I*	1				.22	NO			
			J1-E*	7				.22	NO			
A	18Y	2	J3-G*	1				.22	NO			
			J1-F*	7				.22	NO			
A	19L	2	J3-W	1				.22	NO			
			E8-B	12				.38	NO			

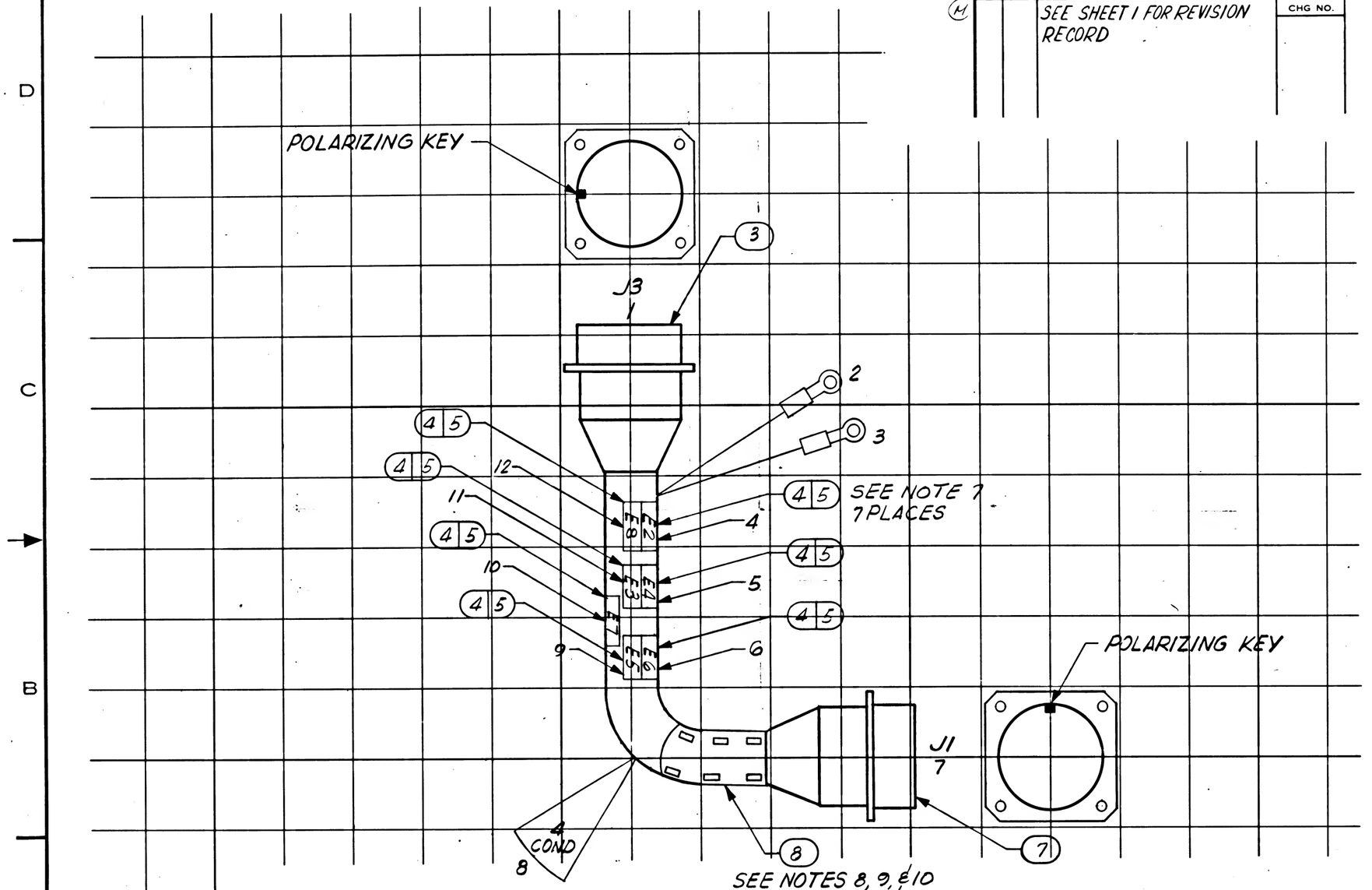
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	19R	2	J3-X	1				.22	NO			
			E2-B	4				.38	NO			
A	20L	2	J3-Y	1				.22	NO			
			E8-B	12				.38	NO			
A	20R	2	J3-Z	1				.22	NO			
			E2-B	4				.38	NO			
A	21L	1	E8-BB	12				.38	NO			
			J1-H*	7				.22	NO			
A	21R	1	E2-BB	4				.38	NO			
			J1-I*	7				.22	NO			
A	22L	2	J3-S	1				.22	NO			
			E3-B	11				.38	NO			
A	22R	2	J3-T	1				.22	NO			
			E4-B	5				.38	NO			
A	23L	2	J3-U	1				.22	NO			
			E3-B	11				.38	NO			
A	23R	2	J3-V	1				.22	NO			
			E4-B	5				.38	NO			
A	24L	1	E3-BB	11				.38	NO			
			J1-J*	7				.22	NO			
A	24R	1	E4-BB	5				.38	NO			
			J1-K*	7				.22	NO			
A	25	1	J3-Q*	1				.22	NO			
			E1-6	2				.25	NO		6	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	1		J3-PP	1				.22	NO			
			E1-7	3				.25	NO		6	
A 27L	1		J3-JJ	1				.22	NO			
			E5-B	9				.38	NO			
A 27R	1		J3-KK	1				.22	NO			
			E6-B	6				.38	NO			
A 28L	1		J3-LL	1				.22	NO			
			E5-B	9				.38	NO			
A 28R	1		J3-MM	1				.22	NO			
			E6-B	6				.38	NO			
A 29L	1		E5-BB	9				.38	NO			
			J1-N*	7				.22	NO			
A 29R	1		E6-BB	6				.38	NO			
			J1-N*	7				.22	NO			
A 30	1		E7-BB	10				.38	NO			
			J1-EE	7				.22	NO			
A 31	1		E7-B	10				.38	NO			
			J1-DD	7				.22	NO			
A 32	1		J3-NN	1				.22	NO			
			J1-MM	7				.22	NO			
A 33	1		J3-A*	1				.22	NO			
			E7-B	10				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385	
SCALE - NONE	REV LTR C		SHEET 10 OF 11

1902385

REVISIONS					17846
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
(M)		SEE SHEET 1 FOR REVISION RECORD			



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 12 FEB 65
CHECKED 24 FEB 65
APPROVAL 24 FEB 65
APPROVAL 3/23/65
NASA APPROVAL MAR 26 1965
MIT APPROVAL MAR 26 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

CODE IDENT NO.	SIZE	
99974	C	1902385
SCALE FULL		SHEET 11 OF 11

MIL 1077C-P

1902385

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902402-011	B	UPGRADED TO CLASS 2 PER TDRR 17316	7 MAR 65	
		C	REVISED PER TDRR 18849	7 MAY 65	
		D	REVISED PER TDRR 21031	27 JUL 65	

24 FEB 65

SHEET	1	2	3	4	5	6	7	8	9	10	11
REV STATUS OF SHEET	C	C	C	C	C	C	C	C	C	D	C
OF SHEETS THIS REV											

AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
ACSP PN	
DRAWN [illegible] DATE 18 FEB 65 CHECKED J. GRIES 24 FEB 65 APPROVAL [illegible] 24 FEB 65 APPROVAL J. J. Moran 3/23/65	WIRING HARNESS "A"
NASA APPROVAL [illegible] MIT APPROVAL [illegible]	CODE IDENT NO 99974 / SIZE 4 / 1902385 / REV D
CONTRACT NAS9-497	SCALE — / SHEET 1 OF 11

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206.
2	ASSEMBLE PER ND1002030.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .15 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (FS367). .12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002027.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWINGS.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	A SPARE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO BE TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE - A1L AND A1P, A2L AND A2P, ETC.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

LIST OF MATERIALS

SEE NOTE	ITEM NUMBER	QTY	PART NO.	DESCRIPTION
	1	1	1902385-001	WIRE-MD1002181, TYPE I, CLASS 1, 20AWG, WHITE- FT. TOTAL LG.
	2	1	1902385-002	WIRE-MD1002181, TYPE I, CLASS 1, 22AWG, WHITE- FT. TOTAL LG.
	3	1	MS3127E24-61SY	(1897056-414) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	7	10160CA-001	SPLICE - REDUCER, CRIMP STYLE
17	5	7	1017460-200	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	5	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PZ	(1897056-414) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (FS2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (FS2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (FS2175-3)
17	13	2	1015864-109	INSULATION-SLEEVING, ELECTRICAL
17	14	1	1015864-107	INSULATION-SLEEVING, ELECTRICAL

WIRING HARNESS A — 1902385 — C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1L	2	J3-CC J1-P*	1 7				.22 .22	NO NO			
A	1R	2	J3-DD J1-W*	1 7				.22 .22	NO NO			
A	2L	2	J3-T* J1-R*	1 7				.22 .22	NO NO			
A	2R	2	J3-U* J1-S*	1 7				.22 .22	NO NO			
A	3L	2	J3-R* J1-W*	1 7				.22 .22	NO NO			
A	3R	2	J3-S* J1-X*	1 7				.22 .22	NO NO			
A	4L	2	J3-AA J1-Y*	1 7				.22 .22	NO NO			
A	4R		J3-EE J1-Z*	1 7				.22 .22	NO NO			
A	5L	2	J3-V* J1-AA	1 7				.22 .22	NO NO			
A	5R	2	J3-W* J1-AB	1 7				.22 .22	NO NO			
A	6	2	J3-EE J1-AC	1 7				.22 .22	NO NO			
A	7L	1	J3-F J1-E	1 7				.22 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385 | SCALE - NONE | REV LTR C | SHEET 6 OF 11

WIRING HARNESS A — 1902385 — C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7R	1	J3-E J1-F	1 7				.22 .22	NO NO			
A	7Y	1	J3-D J1-D	1 7				.22 .22	NO NO			
A	8L	2	J3-K J1-C	1 7				.22 .22	NO NO			
A	8R	2	J3-L J1-H	1 7				.22 .22	NO NO			
A	9L	2	J3-M J1-J	1 7				.22 .22	NO NO			
A	9R	2	J3-N J1-K	1 7				.22 .22	NO NO			
A	10L	2	J3-P J1-L	1 7				.22 .22	NO NO			
A	10R	2	J3-R J1-M	1 7				.22 .22	NO NO			
A	10Y	2	J3-M* J1-P	1 7				.22 .22	NO NO			
A	11L	2	J3-B* J1-P	1 7				.22 .22	NO NO			
A	11R	2	J3-C* J1-S	1 7				.22 .22	NO NO			
A	12L	1	J3-H J1-U	1 7				.22 .22	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385 | SCALE - NONE | REV LTR C | SHEET 7 OF 11

WIRING HARNESS A — 1902385 — C

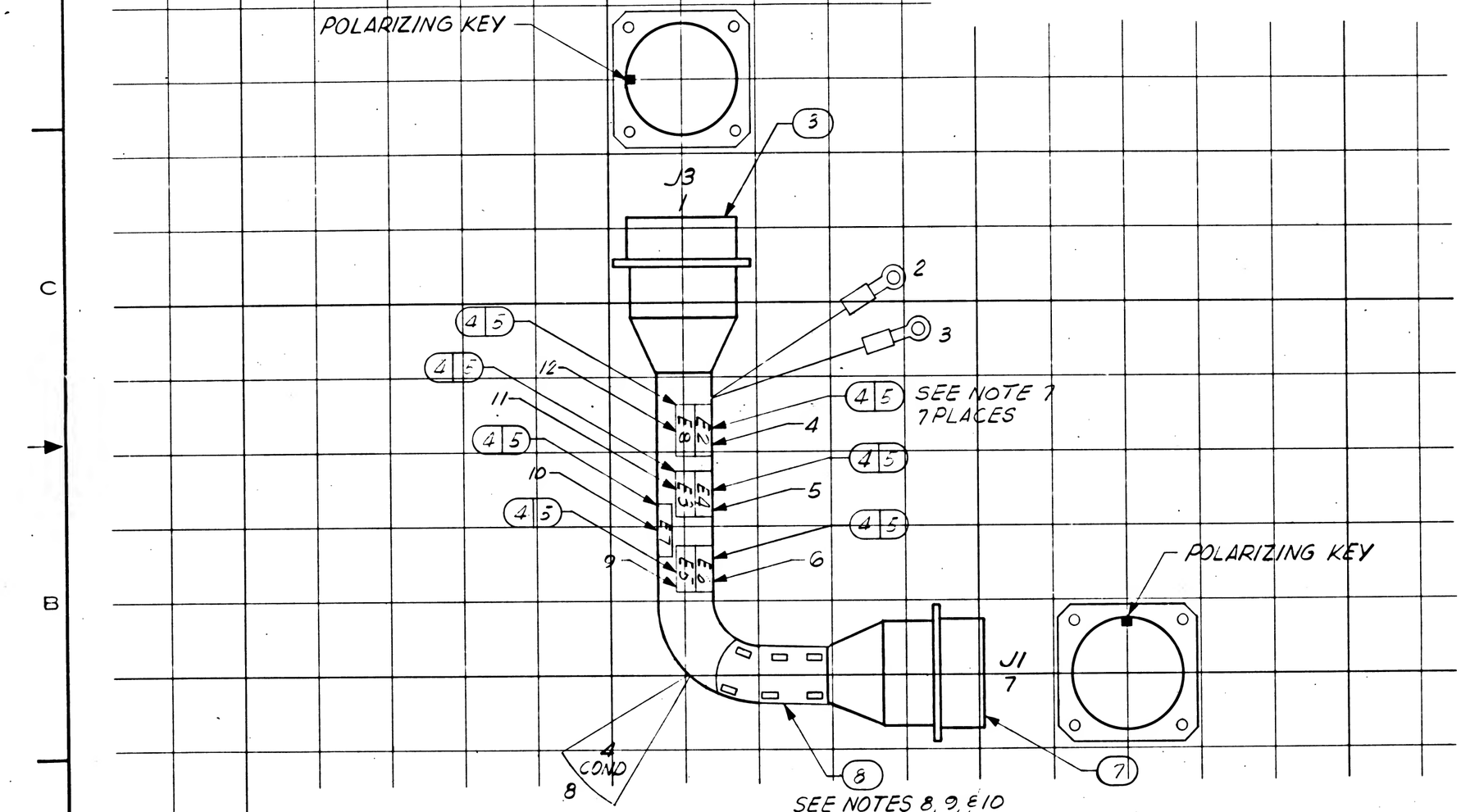
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12P	2	J3-Y E2-b	1 4				.22 .38	NO NO			
A	20L	2	J3-Y E2-B	1 12				.22 .38	NO NO			
A	20R	2	J3-Y E2-B	1 4				.22 .38	NO NO			
A	21L	1	E2-HH J1-H*	12 7				.38 .22	NO NO			
A	21R	1	E2-BB J1-I*	4 7				.38 .22	NO NO			
A	22L	2	J3-S E3-B	1 11				.22 .38	NO NO			
A	22R	2	J3-T E4-B	1 5				.22 .38	NO NO			
A	23L	2	J3-U E3-B	1 11				.22 .38	NO NO			
A	23R	2	J3-V E4-B	1 5				.22 .38	NO NO			
A	24L	1	E3-BB J1-J*	11 7				.38 .22	NO NO			
A	24R	1	E4-BB J1-K*	5 7				.38 .22	NO NO			
A	25	1	J3-Q* E1-6	1 2				.22 .25	NO NO		A	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902385 | SCALE - NONE | REV LTR C | SHEET 9 OF 11

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE+ EQ	ACCESSORY ITEMS	REMARKS
A	26	1	J3-PP	1				.22	NO			
			F1-7	3				.25	NO		6	
A	27L	1	J3-JJ	1				.22	NO			
			E5-9	9				.36	NO			
A	27R	1	J3-KK	1				.22	NO			
			E4-8	6				.34	NO			
A	28L	1	J3-LL	1				.22	NO			
			E5-8	9				.36	NO			
A	28R	1	J3-MM	1				.22	NO			
			E6-8	A				.38	NO			
A	29L	1	E5-BB	9				.36	NO			
			J1-N*	7				.22	NO			
A	29P	1	E6-BB	6				.36	NO			
			J1-N*	7				.22	NO			
A	30	1	E7-BB	10				.36	NO			
			J1-E5	7				.22	NO			
A	31	1	~~E1-C~~ J3-FF	~~B~~ 1				.22 ~~.38~~	NO			
			J1-DD	7				.22	NO			
A	32	1	J3-NN	1				.22	NO			
			J1-MM	7				.22	NO			
A	33	1	J3-AA	1				.22	NO			
			E7-8	10				.38	NO			

NAMED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385
SCALE-NONE	REV LTR D	SHEET 10 OF 11

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		SEE SHEET 1 FOR REVISION RECORD (CHG NO)		



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Waha DATE 12 FEB 65
CHECKED J. GRIEB 24 FEB 65
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

CODE IDENT NO 99974 | SIZE C | 1902385
SCALE FULL | SHEET 11 OF 11

1902385 C

17846

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1902404-011	1902402-011	B	UPGRADED TO CLASS 'A' PER TDRR17846	22-MAR-65	M.J.N. MEM
	(M) (M)	C	REVISED PER TDRR 18849	7 MAY 65	EM MEM
		D	REVISED PER TDRR 21031	27 JUL 65	RP
		E	REVISED PER TDRR 21067	28 JUL 65	JMP EF

Chandler 24 FEB 65

REV																								
SHEET																								
REV STATUS	REV																							
OF SHEETS	SHEET																							
		E	C	C	C	C	C	C	C	C	D	E												
		1	2	3	4	5	6	7	8	9	10	11												

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN [signature] DATE 24 FEB 65
CHECKED J. GRIEB 24 FEB 65
APPROVAL [signature] 24 FEB 65
APPROVAL [signature] 3/23/65
NASA APPROVAL [signature]
MIT APPROVAL [signature]
CONTRACT NAS9-497

WIRING HARNESS "A"

CODE IDENT NO.	SIZE		REV
99974	A	1902385	E

SCALE —

SHEET 1 OF 11

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	PER ND1002206.
2	ASSEMBLE PER ND1002032.
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	MARK LEAD IDENTIFICATION PER ND1002019.
5	SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.
6	SPIRALLING OF THE MARKING IS ALLOWED.
7	MARK SLEEVING WITH REFERENCE DESIGNATION AS SHOWN .12 INCH HIGH, COLOR BLACK PER ND1002019.
8	IDENTIFY USING DRAWING NO. PER MIL-STD-130 (ES267). 12 INCH HIGH CHARACTERS, COLOR WHITE.
9	SERIALIZE PER ND1002023.
10	FASTEN MARKER SECURELY WITH ITEM 9. WRAP MARKER TO CONFORM TO HARNESS CONFIGURATION.
11	SOLDER PER MIL-S-6872 USING ITEMS 10 AND 11, OR 12.
12	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
13	GRID IS SHOWN FOR DIMENSIONING PURPOSES.
14	GRID MODULE IS 1 INCH BASIC.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES AT TRUE POSITION WITHIN + OR - .25 INCH RELATIVE TO GRID. ENDS OF LEADS OR ACCESSORIES AT TRUE POSITION WITHIN + OR - .12 INCH RELATIVE TO GRID. TRUE POSITION DIMENSIONS ARE REGARDLESS OF FEATURE SIZE.
16	BREAKOUTS OF INDIVIDUAL OR GROUPS OF LEADS ARE MINIMUM CONFIGURATION.
17	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
18	VENDOR ITEM - SEE SOURCE CONTROL DRAWING.
19	SPOT TIE CONFIGURATION AS REQUIRED USING ITEM 9.
20	ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.
21	LEADS WITH THE SAME BASIC LEAD IDENTIFICATION NUMBERS ARE TO BE TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. EXAMPLE - A1L AND A1R, A2L AND A2R, ETC.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET		+.50-.50	+.50-.50	+.50-.50

SEE NOTE — LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1902385-001	WIRE-ND1002181, TYPE I, CLASS 1, 20AWG, WHITE- FT. TOTAL LG.
	2	1	1902385-002	WIRE-ND1002181, TYPE I, CLASS 1, 22AWG, WHITE- FT. TOTAL LG.
	3	1	MS3127E24-61SY	(1897056-613) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE SOCKET CONTACT
17	4	7	1016006-001	SPLICE - REDUCER, CRIMP STYLE
17	5	7	1010490-200	INSULATION-SLEEVING, ELECTRICAL, HEAT SHRINK
17	6	2	1015902- 49	TERMINAL-LUG, CRIMP STYLE
	7	1	MS3127E24-61PZ	(1897055-614) CONNECTOR-RECEPTACLE, ELECTRICAL, CRIMP TYPE PIN CONTACT
17	8	1	1016128-001	BAND-IDENTIFICATION BLANK
18	9	AR	1012507-004	TAPE, LACING AND TYING
	10	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	11	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	12	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
17	13	2	1015864-109	INSULATION-SLEEVING, ELECTRICAL
17	14	1	1015864-107	INSULATION-SLEEVING, ELECTRICAL

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1L	2	J3-CC	1				.22	NO			
			J1-P*	7				.22	NO			
A	1R	2	J3-DD	1				.22	NO			
			J1-Q*	7				.22	NO			
A	2L	2	J3-T*	1				.22	NO			
			J1-R*	7				.22	NO			
A	2R	2	J3-U*	1				.22	NO			
			J1-S*	7				.22	NO			
A	3L	2	J3-R*	1				.22	NO			
			J1-W*	7				.22	NO			
A	3R	2	J3-S*	1				.22	NO			
			J1-X*	7				.22	NO			
A	4L	2	J3-AA	1				.22	NO			
			J1-Y*	7				.22	NO			
A	4R	2	J3-BB	1				.22	NO			
			J1-Z*	7				.22	NO			
A	5L	2	J3-V*	1				.22	NO			
			J1-AA	7				.22	NO			
A	5R	2	J3-W*	1				.22	NO			
			J1-BB	7				.22	NO			
A	6	2	J3-EE	1				.22	NO			
			J1-CC	7				.22	NO			
A	7L	1	J3-F	1				.22	NO			
			J1-F	7				.22	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	7R	1	J3-E	1				.22	NO			
			J1-E	7				.22	NO			
A	7Y	1	J3-D	1				.22	NO			
			J1-D	7				.22	NO			
A	8L	2	J3-K	1				.22	NO			
			J1-G	7				.22	NO			
A	8R	2	J3-L	1				.22	NO			
			J1-H	7				.22	NO			
A	9L	2	J3-M	1				.22	NO			
			J1-J	7				.22	NO			
A	9R	2	J3-N	1				.22	NO			
			J1-K	7				.22	NO			
A	10L	2	J3-P	1				.22	NO			
			J1-L	7				.22	NO			
A	10R	2	J3-R	1				.22	NO			
			J1-M	7				.22	NO			
A	10Y	2	J3-M*	1				.22	NO			
			J1-P	7				.22	NO			
A	11L	2	J3-B*	1				.22	NO			
			J1-R	7				.22	NO			
A	11R	2	J3-C*	1				.22	NO			
			J1-S	7				.22	NO			
A	12L	1	J3-H	1				.22	NO			
			J1-U	7				.22	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12R	1	J3-J	1				.22	NO			
			K6-6	8				.25	YES		13	
A	12Y	1	J3-G	1				.22	NO			
			J1-T	7				.22	NO			
A	13	1	K6-4	8				.25	YES		13	
			J1-V	7				.22	NO			
A	14	2	K6-1	8				.25	YES		14	
			J1-W	7				.22	NO			
A	15	2	K6-5	8				.25	YES			
			J1-X	7				.22	NO			
A	16	1	J3-P*	1				.22	NO			
			E7-B	10				.38	NO			
A	17L	2	J3-D*	1				.22	NO			
			J1-B*	7				.22	NO			
A	17R	2	J3-E*	1				.22	NO			
			J1-C*	7				.22	NO			
A	18L	2	J3-H*	1				.22	NO			
			J1-D*	7				.22	NO			
A	18R	2	J3-I*	1				.22	NO			
			J1-E*	7				.22	NO			
A	18Y	2	J3-G*	1				.22	NO			
			J1-F*	7				.22	NO			
A	19L	2	J3-W	1				.22	NO			
			E8-B	12				.38	NO			

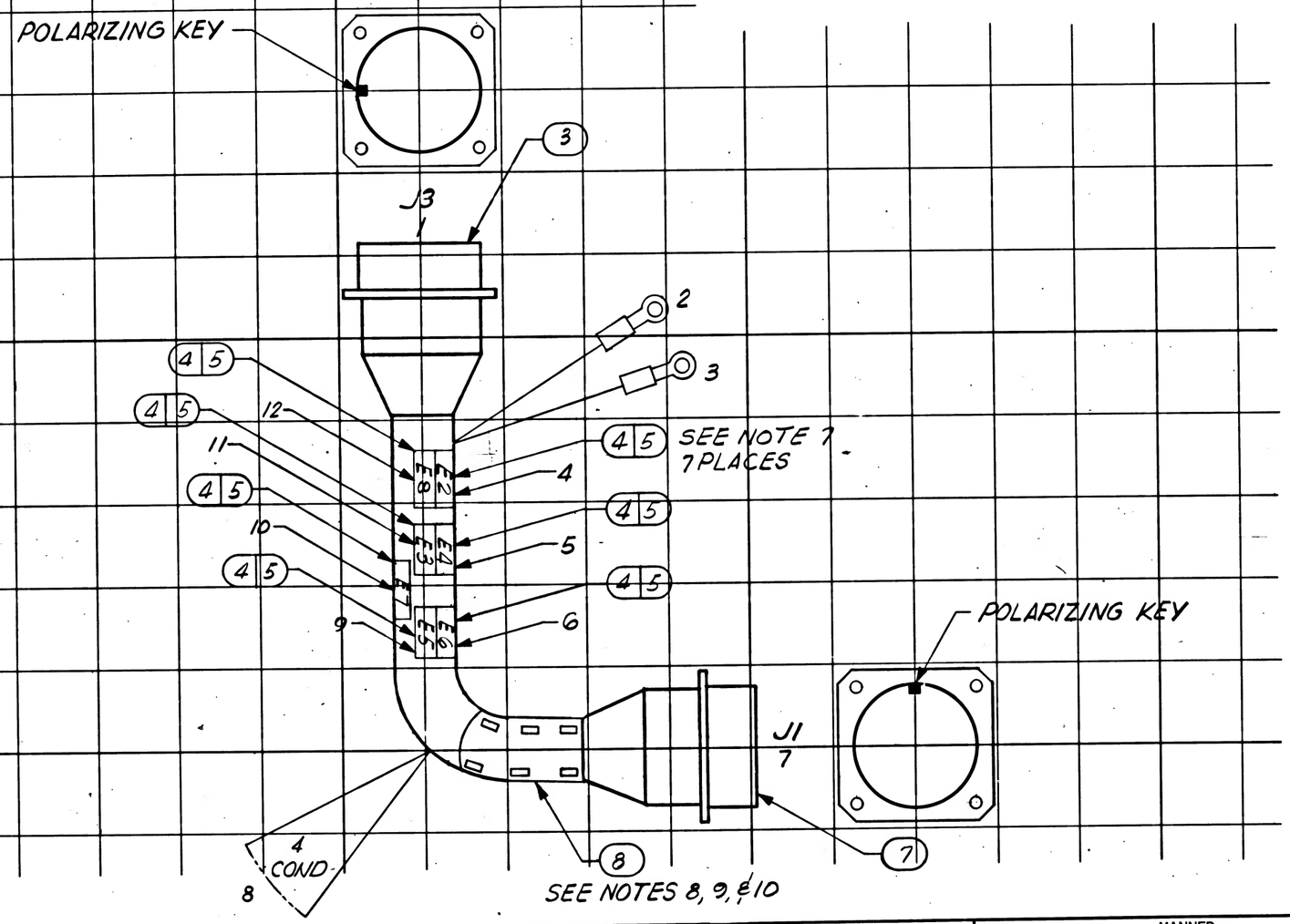
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	19R	2	J3-X	1				.22	NO			
			E2-B	4				.38	NO			
A	20L	2	J3-Y	1				.22	NO			
			E8-B	12				.38	NO			
A	20R	2	J3-Z	1				.22	NO			
			E2-B	4				.38	NO			
A	21L	1	E8-BB	12				.38	NO			
			J1-H*	7				.22	NO			
A	21R	1	E2-BB	4				.38	NO			
			J1-I*	7				.22	NO			
A	22L	2	J3-S	1				.22	NO			
			E3-B	11				.38	NO			
A	22R	2	J3-T	1				.22	NO			
			E4-B	5				.38	NO			
A	23L	2	J3-U	1				.22	NO			
			E3-B	11				.38	NO			
A	23R	2	J3-V	1				.22	NO			
			E4-B	5				.38	NO			
A	24L	1	E3-BB	11				.38	NO			
			J1-J*	7				.22	NO			
A	24R	1	E4-BB	5				.38	NO			
			J1-K*	7				.22	NO			
A	25	1	J3-Q*	1				.72	NO			
			E1-6	2				.25	NO		6	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	26 1		J3-PP	1				.22	NO			
			E1-7	3				.25	NO		6	
A	27L 1		J3-JJ	1				.22	NO			
			E5-B	9				.38	NO			
A	27R 1		J3-KK	1				.22	NO			
			E6-B	6				.38	NO			
A	28L 1		J3-LL	1				.22	NO			
			E5-B	9				.38	NO			
A	28R 1		J3-MM	1				.22	NO			
			E6-B	6				.38	NO			
A	29L 1		E5-BB	9				.38	NO			
			J1-M*	7				.22	NO			
A	29R 1		E6-BB	6				.38	NO			
			J1-N*	7				.22	NO			
A	30 1		E7-BB	10				.38	NO			
			J1-EE	7				.22	NO			
A	31 1		~~E7-E~~ J3-FF	~~10~~ 1				.22 ~~.38~~	NO			
			J1-DD	7				.22	NO			
A	32 1		J3-NN	1				.22	NO			
			J1-MM	7				.22	NO			
A	33 1		J3-A*	1				.22	NO			
			E7-B	10				.38	NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1902385
SCALE-NONE	REV LTR D	SHEET 10 OF 11

1902385

REVISIONS					17846
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
M N		SEE SHEET 1 FOR REVISION RECORD			



1902404-011	1902404-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — — — — —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE 12 FEB 65
CHECKED J. GRIEB 24 FEB 65
APPROVAL L. G. West 24 FEB 65
APPROVAL V. Gelman 3/3/65
NASA APPROVAL [illegible] MAR 26 1965
MIT APPROVAL [illegible] MAR 26 1965

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

CODE IDENT NO.	SIZE	
99974	C	1902385
SCALE FULL		SHEET 11 OF 11

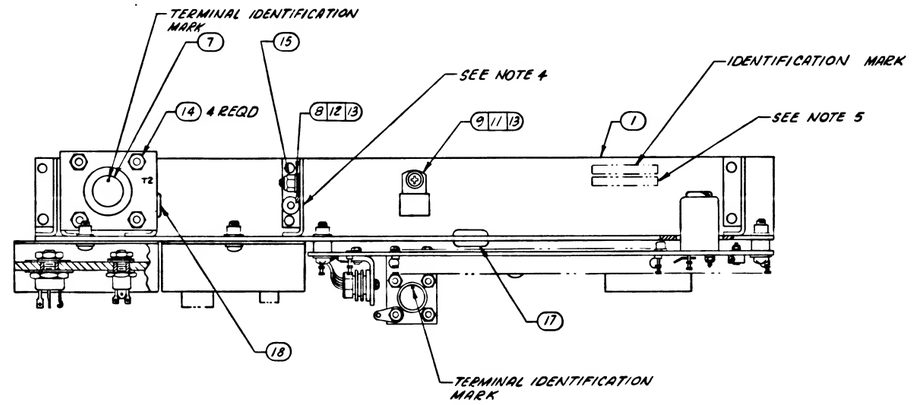
MIL 1077C-P

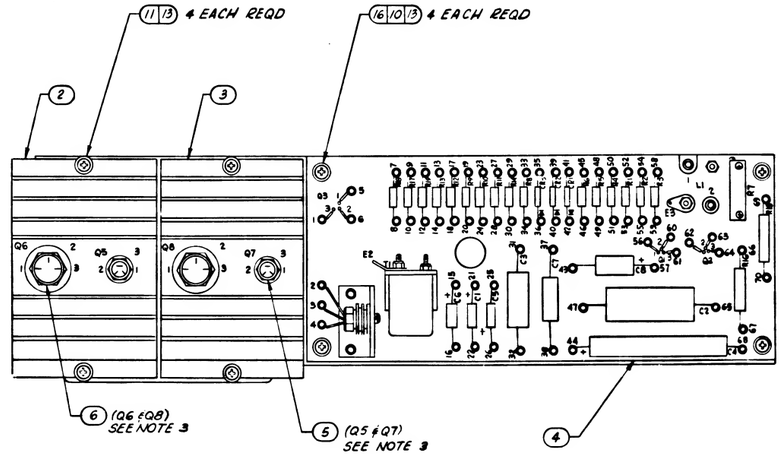
1902385

REVISIONS						17838
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		UPGRADED TO CLASS "A" PER TDAR		3 MAR 65	CMK

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES 2505-1) USING ITEM (26) OR (24) & (25).
3. MATING SURFACES TO BE COATED WITH MIL-S-8660 (ES 2311, SILICON GREASE). REMOVE EXCESS GREASE.
4. TAPE ITEMS (20) AND (21) TOGETHER WITH ITEM (22) WHERE HARNESSES PASS THROUGH BRACKET.
5. MARK "SCHEM" AND APPLICABLE SHEMATIC DRAWING NUMBER PER ND 1002019, .09 HIGH COLOR BLACK, IN LOCATION SHOWN.
6. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NO. PER MIL-STD-130 (ES 267).
7. SERIALIZE PER ND 1002023.
8. SELECT AS REQUIRED.
9. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.





QTY	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
AR		26	SN60WRAP	SOLDER QQ-S-571 (ES 2175-3)
AR		25	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
AR		24	SN60WRAP	SOLDER QQ-S-571 (ES 2175-1)
X		23	DS19C2389	PROCUREMENT SPECIFICATION
AR		22	MIL-I-15126	TYPE ACT, TAPE (ES 2716 TYPE C)
1		21	1900736	WIRING HARNESS "B"
1		20	1900735	WIRING HARNESS "A"
X		19	1902391	SCHEMATIC DIAGRAM
1		18	MS 35489-4	GROMMET
1		17	MS 35489-33	GROMMET
4		16	1015860-006	SPACER
1		15	AN363C832	(1896990-281) NUT, SELF LOCKING
4		14	AN363C632	(1896990-261) NUT, SELF LOCKING
10		13	AN960C8	(1897006-028) WASHER, FLAT
1		12	AN507C832-8	(1897003-066) SCREW, FLAT HD
5		11	MS35216-42	SCREW, PAN HD
4		10	MS35216-44	SCREW, PAN HD
1		9	MS2191-06-3 THRU 5	(1897073-103 THRU-105) CLAMP, CABLE
1		8	MS2191-06-2 THRU 4	(1897073-102 THRU-104) CLAMP, CABLE
1		7	1016086	TRANSFORMER
1		6	1015936-002	TRANSISTOR, MATCHED PAIR
1		5	1015930-002	TRANSISTOR, MATCHED PAIR
1		4	1902390-011	TERMINAL BOARD ASSY
1		3	1900732	HEAT SINK
1		2	1900731	HEAT SINK
1		1	1900727	BRACKET (INSED ASSY)

SEE NOTE 9
SEE NOTE 8
SEE NOTE 8
SEE NOTE 9

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

1902375-011	1902375-011	-011
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP P/N
ORIGINATOR K. Sallee 11 FEB 65
CHECKED J. Walker 26 FEB 65
APPROVAL 1 Al Lemmon 11 Feb 65
APPROVAL 2 W. Walker 2-17-65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER SUPPLY
115 VOLTS, 400 CPS
ASSEMBLY

CODE IDENT NO | SIZE E | 1902389
SCALE 1:1 | SHEET 1 OF 1

1902389 A

APOLLO G&N Specification
PS1902389 A
Original Issue Date: MAR 2 6 1965
Release Authority: TDRR 17836
Class A Release

PROCUREMENT SPECIFICATION

FOR

POWER SUPPLY

115 VOLTS - 400 CPS, ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals MIT	Approvals NASA
5-3-65	A	17836	ALL SHEETS	WR	

This specification consists of page 1 to 8 inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP
		W Rupp for J. M. Watson 3-23-65	W R Hoeller

PROCUREMENT SPECIFICATION

FOR

POWER SUPPLY

115 VOLTS - 400 CPS, ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Power Supply, 115 Volts - 400 CPS, Assembly, hereafter called the assembly.

1.2 CLASSIFICATION. The requirements for the equipment, Part Number 1902389-011, covered by this specification shall be designated as Type I in this specification and identified as PS1902389-011.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

Military

MIL-P-116	Preservation, Methods of
MIL-Q-9858(2)	Quality Control System Requirements
MIL-E-17555	Electronic and Electrical Equipment and Associated Repair Parts, Preparation for Delivery of

APOLLO G&N

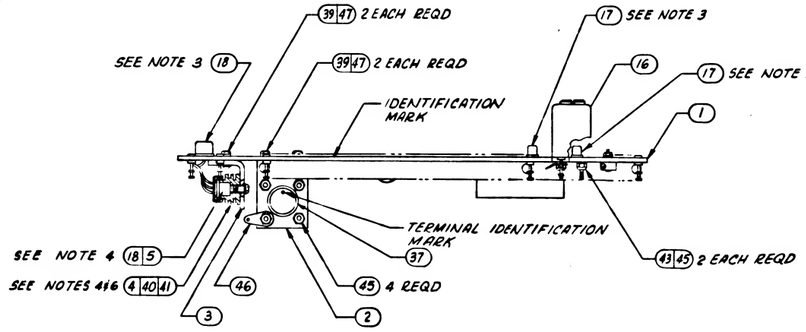
ND-1002018	General Specification for APOLLO Ground Support Equipment
ND-1002023	Procedure for Serialization of Components, Assemblies, etc., for APOLLO Guidance and Navigation Equipment

DRAWINGS

APOLLO G&N

1902389	Power Supply, 115 Volts -400 CPS, Assembly

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM (51) OR (49) & (50).
3. BOND ITEMS (7) (8) (9) (17) AND 1 OF (18) TO ITEM (1) PER ND 1002203.
4. BEFORE SOLDERING ASSEMBLE ITEMS (4) AND 1 OF (18) AND BOND TO ITEM (5) PER ND 1002203.
5. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
6. HEAT SINK CAP LOCKING TORQUE 25-30 IN. OZ.
7. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.



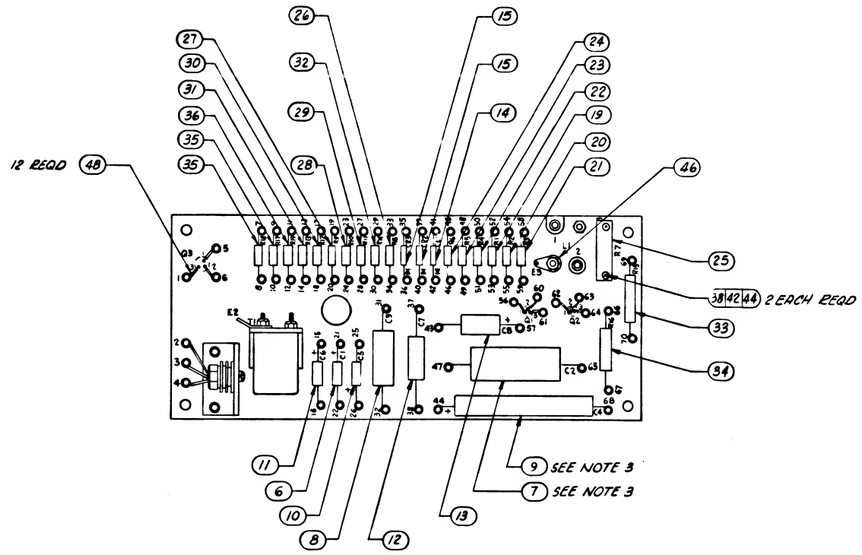


TABLE 1

FROM		TO		
CIRCUIT POINT	CIRCUIT POINT	STRIP WIRE	TIN SEE NOTE 2
R7 RED	TERM-59	.30	YES
R7 YEL	TERM-34	.30	YES
R7 GRN	TERM-68	.30	YES

TABLE 2

FROM	TO
Q4-1	TERM 4
Q4-2	TERM 3
Q4-3	TERM 2

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO	DATE	APPD
A		UPGRADED TO CLASS "A" PER TDER.		3 MAR 65	

17836

			/	52	1900734	WIRE 1.81" "A"
			AR	51	SN60WRAP	SOLDER QQ-S-571 (ES2175 3)
			AR	50	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
			AR	49	SN60W5	SOLDER QQ-S-571 (ES2175-)
			AR	48	1006776-20	INSULATION SLEEVING
			4	47	AN960C6	(1897006-026) WASHER, FLAT
			2	46	MS35431-1	TERMINAL LUG
SEE NOTE 7			6	45	1016151-004	NUT, SELF LOCKING
SEE NOTE 7			2	44	1016151-002	NUT, SELF LOCKING
			2	43	AN960C4	(1897006-024) WASHER, FLAT
			2	42	AN960C3	(1897006-023) WASHER, FLAT
			1	41	MS35338-78	WASHER, LOCK
			1	40	MS35216-12	SCREW, PAN HD
			4	39	MS35216-25	SCREW, PAN HD
			2	38	MS35216-7	SCREW, PAN HD
SEE NOTE 7			1	37	1016089	TRANSFORMER
			1	36	RN60C7520F	(1896976-181) RESISTOR MIL-R-10509D
			2	35	RC20GF5.1J	(1896952-062) RESISTOR MIL-R-11D
			1	34	RN70C2211F	(1896972-322) RESISTOR MIL-R-10509D
SEE NOTE 7			1	33	1015942-448	RESISTOR, WIREWOUND
			1	32	RN60C1822F	(1896976-410) RESISTOR MIL-R-10509D
			1	31	RN60C1500F	(1896976-210) MIL-R-10509D
			1	30	RN60C7501F	(1896976-373) MIL-R-10509D
			1	29	RN60C5111F	(1896976-357) MIL-R-10509D
			1	28	RC20GF102J	(1896952-049) MIL-R-11D
			1	27	RN60C2002F	(1896976-414) MIL-R-10509D
			1	26	RN60C7500F	(1896976-277) MIL-R-10509D
			1	25	R7 (RC21G103	(1896967-010) MIL-R-27208A
			1	24	RC20GF472J	(1896952-065) MIL-R-11D
			1	23	RC20GF103J	(1896952-073) MIL-R-11D
			1	22	RC20GF333J	(1896952-085) MIL-R-11D
			1	21	RN60C1502F	(1896976-402) MIL-R-10509D
			1	20	RC20GF302J	(1896952-060) MIL-R-11D
			1	19	RC20GF202J	(1896952-056) RESISTOR MIL-R-11D
SEE NOTE 7			2	18	1015928-001	TRANSISTOR
SEE NOTE 7			2	17	1015935-001	TRANSISTOR
SEE NOTE 7			1	16	1015841-6	REACTOR, VARIABLE
			2	15	1N4868	(1896966-003) DIODE MIL-S-19500
SEE NOTE 7			1	14	1015941-13	SEMICONDUCTOR DEVICE DIODE
			1	13	CS13AE10IM	(1896954-116) CAPACITOR MIL-C-26655
			1	12	CD05AIKB104K3	(1896959-004) MIL-C-25
			1	11	CS13AF628K	(1896954-141) MIL-C-26655
			1	10	CS13AF627K	(1896954-138) MIL-C-26655
			1	9	CL25BG331UD3	(1897081-310) MIL-C-39014
			1	8	CH05AIMC474K	(1896958-206) MIL-C-18312B
			1	7	CH05AIM140SK	(1896958-202) MIL-C-18312B
			1	6	CS13AF628K	(1896954-141) CAPACITOR MIL-C-26655
SEE NOTE 7			1	5	1015870-001	INSULATOR-DISC, TRANSISTOR
SEE NOTE 7			1	4	1015872-001	HEAT SINK, TRANSISTOR
			1	3	1900730	BRACKET, TRANSISTOR (INSEP) ASSY
			1	2	1900729	BRACKET, TRANSFORMER (INSEP) ASSY
			1	1	1900728	TERMINAL BOARD (INSEP) ASSY
			QTY REQUIRED	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

1902389-011	1902375-011	-011
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES, TOLERANCES ON FRACTIONS, DECIMALS, ANGLES. DO NOT SCALE THIS DRAWING. MATERIAL —. CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC, MILWAUKEE, WISCONSIN. ACSP PN. DRAWN 9 FEB 65. CHECKED. I.O.T. APPROVAL 2-23-65. APPROVAL. NASA APPROVAL. MIT APPROVAL.

MANNED SPACECRAFT CENTER, HOUSTON, TEXAS

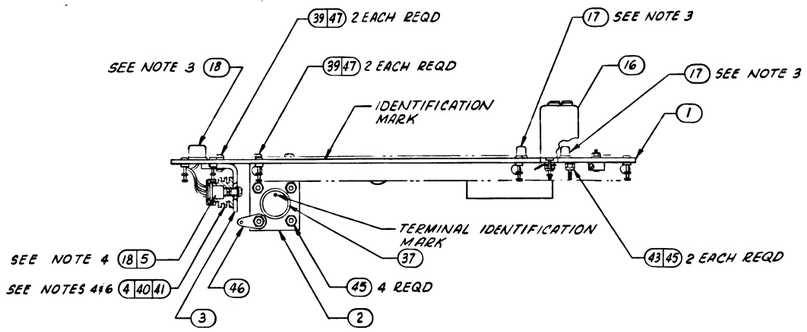
TERMINAL BOARD ASSEMBLY

CODE IDENT NO. SIZE E. 1902390. SCALE 1:1. SHEET 1 OF 1

1902390

SEE NOTE 7

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM (51) OR (49) & (50).
3. BOND ITEMS (7), (8), (9), (17) AND 1 OF (18) TO ITEM (1) PER ND 1002203.
4. BEFORE SOLDERING ASSEMBLE ITEMS (4) AND 1 OF (18) AND BOND TO ITEM (5) PER ND 1002203.
5. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
6. HEAT SINK CAP LOCKING TORQUE 25-30 IN. OZ.
7. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.



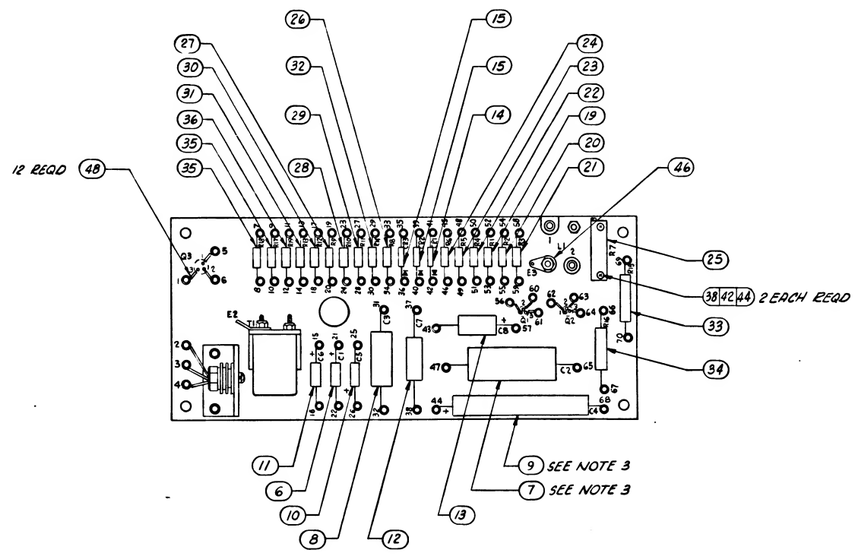


TABLE 1

FROM CIRCUIT POINT	TO CIRCUIT POINT	STRIP WIRE	TIN SEE NOTE 2
R7 RED	TERM-59	.30	YES
R7 YEL	TERM-34	.30	YES
R7 GRN	TERM-68	.30	YES

TABLE 2

FROM	TO
Q4-1	TERM 4
Q4-2	TERM 3
Q4-3	TERM 2

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		UPGRADED TO CLASS "A" PER TDRR		3 MAR 65	
B		REVISED PER TDRR 20083		8 JUL 65	

SEE NOTE							
			/		52	1900734	WIRE LIST "AA"
			AR		51	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
			AR		50	MIL-F-14256 TYPE A OR W \ FLUX (ES2798)	
			AR		49	SN60W3	SOLDER QQ-S-571 (ES2175-)
7			AR		48	1006776-20	INSULATION SLEEVING
			4		47	AN960C6	(1897006-026) WASHER, FLAT
			2		46	MS35431-1	TERMINAL LUG
7			6		45	1016151-004	NUT, SELF LOCKING
7			2		44	1016151-002	NUT, SELF LOCKING
			2		43	AN960C4	(1897006-024) WASHER, FLAT
			2		42	AN960C3	(1897006-023) WASHER, FLAT
			1		41	MS35338-78	WASHER, LOCK
			1		40	MS35216-12	SCREW, PAN HD
			4		39	MS35216-25	SCREW, PAN HD
			2		38	MS35216-7	SCREW PAN HD
7			1		37	1016069	TRANSFORMER
			1		36	2N60C7520F	(1896976-181) RESISTOR MIL-R-10509D
			2		35	RC20GF511J	(1896952-080) RESISTOR MIL-R-11D
			1		34	2N70C2211F	(1896972-322) RESISTOR MIL-R-10509D
7			1		33	1015942-188	RESISTOR, WIREWOUND
			1		32	2N60C1822F	(1896976-410) RESISTOR MIL-R-10509D
			1		31	2N60C1500F	(1896976-210) MIL-R-10509D
			1		30	2N60C750JF	(1896976-373) MIL-R-10509D
			1		29	2N60C5111F	(1896976-351) MIL-R-10509D
			1		28	RC20GF102J	(1896952-049) MIL-R-11D
			1		27	2N60C2002F	(1896976-412) MIL-R-10509D
			1		26	2N60C7500F	(1896976-277) MIL-R-10509D
			1		25	2T20C2103	(1896967-010) MIL-R-27208A
			1		24	RC20GF472J	(1896952-065) MIL-R-11D
			1		23	RC20GF103J	(1896952-073) MIL-R-11D
			1		22	RC20GF333J	(1896952-085) MIL-R-11D
			1		21	2N60C1502F	(1896976-402) MIL-R-10509D
			1		20	RC20GF202J	(1896952-060) MIL-R-11D
			1		19	RC20GF202J	(1896952-056) RESISTOR MIL-R-11D
7			2		18	1015928-001	TRANSISTOR
7			2		17	1015935-001	TRANSISTOR
7			1		16	1015841-6	REACTOR, VARIABLE
			2		15	IN486B	(1896966-003) DIODE MIL-S-19500
7			1		14	1015941-13	SEMICONDUCTOR DEVICE DIODE
			1		13	CS13AE101M	(1896954-116) CAPACITOR MIL-C-26655
			1		12	CD05AIKB104K3	(1896959-004) MIL-C-25
			1		11	CS13AFG68K	(1896954-141) MIL-C-26655
			1		10	CS13AF427K	(1896954-138) MIL-C-26655
			1		9	CL25BG351UP3	(1897081-310) MIL-C-3965
			1		8	CM05AIMC474K	(1896958-006) MIL-C-18312B
			1		7	CD05AIMH105K	(1896958-029) MIL-C-39014/02
			1		6	CS13AFG82K	(1896954-140) CAPACITOR MIL-C-26655
7			1		5	1015870-001	INSULATOR-DISC, TRANSISTOR
7			1		4	1015872-001	HEAT SINK, TWO PIECE
			1		3	1900730	BRACKET, TRANSISTOR INSEP ASSY
			1		2	1900729	BRACKET, TRANSFORMER INSEP ASSY
			1		1	1900728	TERMINAL BOARD INSEP ASSY
			QUANTITY REQUIRED	EFFEC-TIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

1902389-011	1902375-011	-011
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN

ACSP PN

DRAWN K. Schlueter 9 FEB 65 DATE

CHECKED [illegible] 2-26-65

ENGR APPROVAL [illegible] 3-12-65

APPROVAL [illegible]

NASA APPROVAL [illegible]

MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

TERMINAL BOARD ASSEMBLY

CODE IDENT NO 99974 | SIZE E | 1902390

SCALE 1:1 | SHEET 1 OF 1

1902390

CONTRACT NAS9-497 | SCALE — | SHEET 1 OF 27

REV	SIZE	CODE IDENT NO.
B	A	19023397

NASA APPROVAL

MIT APPROVAL

APPROVAL

APPROVAL

CHECKED

DRAWN DATE

ACSP PN

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST

REV STATUS	REV																											
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		B	UPGRADED TO CLASS 'H' PER TDEE 11837	MAR 65	

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOT APPLICABLE
2	PER ND1002206
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	SOLDER ALL CONNECTIONS PER MIL-STD-440, USING ITEMS 18 AND 36.
5	WIRE INSULATION SHALL EXTEND TO WITHIN .06 MAXIMUM OF CONNECTION AFTER SOLDERING.
6	APPLY ITEM 17 ON ALL SOLDERED CONNECTIONS AFTER SOLDERING.
7	BIND WIRES TOGETHER WITH ITEM 16 (LACING TAPE). SECURE AT APPROXIMATELY .50 INTERVALS.
8	VENDOR ITEM, SEE SPECIFICATION CONTROL DRAWING.
9	LEAD NUMBER SUFFIX Z INDICATES THIS LEAD IS COMMON WITH BASIC LEAD FOR 115V OPERATION.
10	IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130.
11	EXPLANATION OF ABBREVIATIONS – 1S – FIRST STACK 2S – SECOND STACK RD – RED DOT NRD – NON-RED DOT
12	SEE FIG. 1 AND FIG. 6.
13	LEADS SHALL BE MARKED PER ND1002019 USING APPLICABLE WIRE
14	MARKERS USING ITEMS 19 THRU 25.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ASTERICK (*) DENOTES NO ALPHA DESIGNATION ASSIGNED TO LEAD NO.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

SEE NOTE NUMBER	ITEM	QTY	LIST OF MATERIALS PART NO.	DESCRIPTION
	1	1	1902397-001	WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, WHITE, 19 STRANDS OR MORE
	2	1	1902397-002	WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, GREEN, 19 STRANDS OR MORE, 20 FEET TOTAL LENGTH
	3	1	1902397-003	WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, RED, 19 STRANDS OR MORE, 20 FEET TOTAL LENGTH
	4	1	1902397-004	WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, BLACK, 19 STRANDS OR MORE, 200 FEET TOTAL LENGTH
	5	1	1902397-005	WIRE, ND1002181 TYPE 1, CLASS 1, 16AWG, GRAY, 19 STRANDS OR MORE, 200 FT TOTAL LG.
	6	1	1902397-006	WIRE, ND1002181 TYPE 1, CLASS 1, 20AWG, WHITE, 19 STRANDS OR MORE, 200 FEET TOTAL LENGTH
	7	1	1902397-007	WIRE, ND1002181 TYPE 1, CLASS 1, 20AWG, GRAY, 19 STRANDS OR MORE, 300 FEET TOTAL LENGTH
	8	12	1015864-139	SLEEVING, INSULATION
	9	1	1902397-009	WIRE, ND1002181 TYPE 1, CLASS 1, 20AWG, WHITE AND YELLOW, 19 STRANDS OR MORE, 600 FT TOTAL LG
	10	1	1902397-010	WIRE, ND1002181 TYPE 1, CLASS 1, 20AWG, WHITE AND RED, 19 STRANDS OR MORE, 600 FT TOTAL LG.
	11	1	1902397-011	WIRE, ND1002181 TYPE 1, CLASS 1, 20AWG, WHITE AND GRAY, 19 STRANDS OR MORE, 600 FT TOTAL LG.
	12	144	MS25036-2	INSULUG, CRIMP STYLE
8	13	8	1015902-003	INSULUG, CRIMP STYLE

SEE NOTE NUMBER	ITEM	QTY	LIST OF MATERIALS PART NO.	DESCRIPTION
	14	3	MS20659- 7	HYLUG, CRIMP STYLE
8	15	4	1016221	RECEPTICAL FAST-ON
	16	AR	MIL-T-713	LACING TAPE TYPE P, CLASS 2, BLACK (ES2732 NO. 18).
	17	AR	MIL-V-173	VARNISH, MOISTURE AND FUNGUS RESISTANT
	18	AR	QQ-S-571	TYPE SN60 SOLDER (ES2175 ALLOY 1).
8	19	1	1016222- 1	MINATURE WIRE MARKERS
8	20	1	1016222- 2	MINATURE WIRE MARKERS
8	21	1	1016222- 3	MINATURE WIRE MARKERS
8	22	1	1016222- 4	MINATURE WIRE MARKERS
8	23	1	1016222- 5	MINATURE WIRE MARKERS
8	24	1	1016222- 6	MINATURE WIRE MARKERS
8	25	1	1016222- 7	MINATURE WIRE MARKERS
8	26	9	1016346	JUMPER
	27	1	1902397-012	WIRE, 16AWG, GRAY, 19 STRANDS OR MORE, 300 FEET TOTAL LENGTH
	28	1	1902397-013	WIRE, 20AWG, RED, 19 STRANDS OR MORE, 300 FEET TOTAL LENGTH
	29	1	1902397-014	SLEEVING, PLASTIC PER MIL-I-631 GRADE C, CLASS 1, CATAGORY 1, 15AWG, CLEAR 24 IN. TOT LG

SEE NOTE — LIST OF MATERIALS

NUMBER ITEM	QTY	PART NO.	DESCRIPTION
30	1	1902397-015	SLEEVING, PLASTIC PER MIL-I-631, GRADE C CLASS 1, CATAGORY 1, CLEAR 24 IN. TOTAL LENGTH
31	1	1902397-016	SLEEVING, PLASTIC PER MIL-I-631, GRADE C, CLASS 1, CATAGORY 1, 9AWG, CLEAR 24 IN. TOT LG.
32	1	1902397-017	SLEEVING, PLASTIC PER MIL-I-631, GRADE C, CLASS 1, CATAGORY 1, 7AWG, CLEAR 30 IN. TOT LG.
34	1	MIL-I-3190	SLEEVING, PLASTIC, IMPREGNATED 19AWG, YELLOW, 44 INCHES TOTAL LENGTH
35	1	QQ-W-343	TYPE S WIRE, SOLID, 20AWG 12 IN. TOTAL LENGTH
36	AR	QQ-S-571	FLUX TYPE AR (ES2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES2796).
37	1	1902397-018	WIRE, 22AWG, WHITE

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 5	5		J1-A						YES			
			J1MTG-SCR						NO		12	
• 49			B1WIRE-1						NO			
			TB7-1						NO		12	
• 50			B1WIRE-2						NO			
			TB7-2						NO		12	
• 51			B1WIRE-3						NO			
			TB7-3						NO		12	
• 52			B1WIRE-4						NO			
			TB7-4						NO		12	
• 53			B5WIRE-4						NO			
			TB7-4						NO		12	
• 53Z			B5WIRE-3						NO			
			TB7-4						NO		12	
• 54	1		TB6-2						NO		12	
			TB7-4						NO		12	
• 55			B2WIRE-4						NO			
			TB7-4						NO		12	
• 56			B2WIRE-1						NO			
			TB7-5						NO		12	
• 57			B2WIRE-2						NO			
			TB7-6						NO		12	
• 58			B2WIRE-3						NO			
			TB7-7						NO		12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 59			B5WIRE-1						NO			
			TB7-8						NO		12	
• 59Z			B5WIRE-2						NO			
			TB7-8						NO		12	
• 64			B3WIRE-1						NO			
			TB4-1						NO		12	
• 65			B3WIRE-2						NO			
			TB4-2						NO		12	
• 66			B3WIRE-3						NO			
			TB4-3						NO		12	
• 67			B3WIRE-4						NO			
			TB4-4						NO		12	
• 70			B4WIRE-4						NO			
			TB4-4						NO		12	
• 71			B4WIRE-1						NO			
			TB4-6						NO		12	
• 72			B4WIRE-2						NO			
			TB4-7						NO		12	
• 73			B4WIRE-3						NO			
			TB4-8						NO		12	
• 74			HR3						NO			
			TB4-5						NO		12	
• 75			HR2						NO			
			TB4-5						NO		12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 76			HR1						NO			
			TB4-4						NO		12	
• 77			HR1						NO			
			TB4-9						NO		12	
• 78			HR2						NO			
			TB4-10						NO		12	
• 79			HR3						NO			
			TB4-11						NO		12	
• 80			DELETED									
• 81	3		K4-4						NO		13	
			TB4-6						NO		12	
• 82	2		K4-5						NO		13	
			TB4-7						NO		12	
• 83	4		K4-6						NO		13	
			TB4-8						NO		12	
• 85	3		K5-L1						NO		13	
			T2-H2X2						NO			
• 86	2		K5-L2						NO		13	
			T2-X1						NO			
• 98	4		S7SW1-NO						YES			
			XF1-1						YES			
• 99	10		S7SW2-NO						YES			
			TB3-1						NO		12	

WIRE LIST 1902397 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 100	4		S7SW1-C					YES			
			TB4-9					NO		12	
• 101			HR4					NO			
			TB4-5					NO		12	
• 102	9		DS7-G					YES			
			TB3-5					NO		12	
• 103	4		S5SW1-NO					YES			
			XF3-1					YES			
• 104	10		S5SW2-NO					NO			
			TB3-1					NO		12	
• 105	4		S5SW1-C					YES			
			TB4-11					NO		12	
• 106	10		HR4					NO			
			TB4-12					NO		12	
• 107	9		DS5-G					YES			
			TB3-6					NO		12	
• 109	4		S4SW1-NO					YES			
			XF4-1					YES			
• 110	10		S4SW2-NO					YES			
			TB3-2					NO		12	
• 111	4		S4SW1-C					YES			
			TB4-12					NO		12	
• 112	3		C1-RC					NO		13	
			TB8-5					NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B | SHEET 10 OF 27

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WIRE LIST 1902397 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 113	9		DS4-G					YES			
			TB3-6					NO		12	
• 115	10		DS17-B					YES			
			TB8-4					NO		12	
• 116	9		DS17-E					NO			
			TB8-6					NO		12	
• 117	10		DS17-C					YES			
			TB1-10					NO		12	
• 119	4		CB1-1					YES			
			CB1-3					NO		13	
• 120	3		CR18-2					YES			
			CR17-2					YES			
• 121	1		CR20-1					YES			
			CR19-1					YES			
• 122	27		TB8-6					NO		12	
			CR19-1					YES			
• 123	27		CR19-2					YES			
			CR18-1					YES			
• 124	27		CR20-2					YES			
			CR17-1					YES			
• 125	3		CR17-2					YES			
			TB8-4					NO		12	
• 126	27		CR19-2					YES			
			T1-5					YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B | SHEET 11 OF 27

WIRE LIST 1902397 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 127	27		CR20-2					YES			
			T1-7					YES			
• 128	3		T1-1					YES			
			TB8-1					NO		12	
• 129	1		T1-4					YES			
			TB8-2					NO		12	
• 141	10		DS16-1					NO		12	
			TB4-13					NO		12	
• 142	9		DS16-2					NO		12	
			TB8-6					NO		12	
• 150	10		CR1-A					YES			
			TB2-1					NO		12	
• 151	10		CR2-B					YES			
			TB2-2					NO		12	
• 152	10		CR3-C					YES			
			TB2-3					NO		12	
• 153	10		CR4-C					YES			
			TB2-4					NO		12	
• 154	10		CR5-E					YES			
			TB2-5					NO		12	
• 155	10		CR6-F					YES			
			TB2-6					NO		12	
• 156	10		CR7-G					YES			
			TB2-7					NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B | SHEET 12 OF 27

WIRE LIST 1902397 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 157	10		CR8-H					YES			
			TB2-8					NO		12	
• 158	10		CR9-I					YES			
			TB2-9					NO		12	
• 159	10		CR10-J					YES			
			TB2-10					NO		12	
• 160	10		CR11-K					YES			
			TB2-11					NO		12	
• 161	10		CR12-L					YES			
			TB2-12					NO		12	
• 162	10		CR13-M					YES			
			TB2-13					NO		12	
• 163	10		CR14-N					YES			
			TB2-14					NO		12	
• 164	10		CR15-O					YES			
			TB2-15					NO		12	
• 165	10		CR16-P					YES			
			TB2-16					NO		12	
• 166	10		DS8-A					YES			
			TB1-9					NO		12	
• 167	10		DS9-A					YES			
			TB1-11					NO		12	
• 168	10		DS10-A					YES			
			TB1-11					NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B | SHEET 13 OF 27

WIRE LIST 1902397 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 169	10		DS11-A TB1-9						YES NO		12	
• 170	10		DS12-A TB1-11						YES NO		12	
• 171	10		DS13-A TB1-10						YES NO		12	
• 172	10		DS14-A TB1-11						YES NO		12	
• 173	10		DS15-A TB1-10						YES NO		12	
• 174	9		S8SW1-NO TB2-1						YES NO		12	
• 175	9		S8SW2-NO TB2-2						YES NO		12	
• 176	9		S9SW1-NO TB2-3						YES NO		12	
• 177	9		S9SW2-NO TB2-4						YES NO		12	
• 178	9		S10SW1-NO TB2-5						YES NO		12	
• 179	9		S10SW2-NO TB2-6						YES NO		12	
• 180	9		S11SW1-NO TB2-7						YES NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR E | SHEET 14 OF 27

WIRE LIST 1902397 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 181	9		S11SW2-NO TB2-8						YES NO		12	
• 182	9		S12SW1-NO TB2-9						YES NO		12	
• 183	9		S12SW2-NO TB2-10						YES NO		12	
• 184	9		S13SW1-NO TB2-11						YES NO		12	
• 185	9		S13SW2-NO TB2-12						YES NO		12	
• 186	9		S14SW1-NO TB2-13						YES NO		12	
• 187	9		S14SW2-NO TB2-14						YES NO		12	
• 188	9		S15SW1-NO TB2-15						YES NO		12	
• 189	9		S15SW2-NO TB2-16						YES NO		12	
• 190	7		S33-NO TB2-1						YES NO		12	
• 191	10		S32 TB2-2						NO NO		12	
• 192	10		S31-NO TB2-3						YES NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR E | SHEET 15 OF 27

WIRE LIST 1902397 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 193	6		S30-NC TB2-4						YES NO		12	
• 194	7		S29-NO TB2-5						YES NO		12	
• 195	10		S28 TB2-6						NO NO		12	
• 196	6		S27-NO TB2-7						YES NO		12	
• 197	6		S26-NC TB2-8						YES NO		12	
• 198	7		S25-NO TB2-9						YES NO		12	
• 199	10		S24 TB2-10						NO NO		12	
• 200	6		S23-NO TB2-11						YES NO		12	
• 201	6		S22-NC TB2-12						YES NO		12	
• 202	7		S21-NO TB2-13						YES NO		12	
• 203	10		S20 TB2-14						NO NO		12	
• 204	6		S19-NO TB2-15						YES NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR F | SHEET 16 OF 27

WIRE LIST 1902397 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 205	6		S18-NC TB2-16						YES NO		12	
• 206	9		S8SW1-C TB1-1						YES NO		12	
• 207	9		S9SW1-C TB1-1						YES NO		12	
• 208	9		S10SW1-C TB1-3						YES NO		12	
• 209	9		S11SW1-C TB1-4						YES NO		12	
• 210	9		S12SW1-C TB1-6						YES NO		12	
• 211	9		S13SW1-C TB1-6						YES NO		12	
• 212	9		S14SW1-C TB1-7						YES NO		12	
• 213	9		S15SW1-C TB1-7						YES NO		12	
• 214	7		S33-C TB1-2						YES NO		12	
• 215	10		S32 TB1-2						NO NO		12	
• 216	10		S31-NC TB1-2						YES NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B | SHEET 17 OF 27

WIRE LIST 1902397 B 17

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 217	6		S30-C TB1-1						YES NO		12	
• 218	7		S29-C TB1-4						YES NO		12	
• 219	10		S28 TB1-3						NO NO		12	
• 220	6		S27-NC TB1-4						YES NO		12	
• 221	6		S26-C TB1-3						YES NO		12	
• 222	7		S25-C TB1-5						YES NO		12	
• 223	10		S24 TB1-5						NO NO		12	
• 224	6		S23-NC TB1-6						YES NO		12	
• 225	6		S22-C TB1-5						YES NO		12	
• 226	7		S21-C TB1-8						YES NO		12	
• 227	10		S20 TB1-7						NO NO		12	
• 228	6		S19-C TB1-8						YES NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B A | SHEET 18 OF 27

WIRE LIST 1902397 B 18

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 229	6		S18-C TB1-8						YES NO		12	
• 230			T2-H2X2 TB9-L1						NO NO		14 15	
• 231	2		T2-H1 TB9-L2						NO NO		14 15	
• 233	4		S6SW1-NO XF2-1						YES YES			
• 234	4		S6SW1-C TB4-10						YES NO		12	
• 235	10		S6SW2-NO TB3-2						YES NO		12	
• 236	1		TB8-6 C1-NRD						NO NO		12 13	
• 237	9		DS6-G TB3-4						YES NO		12	
• 239	11		J2-A J2MTG-SCR						YES NO		12	
• 240	1		K8-4 TB9-L1						NO NO		15 15	
• 241	9		CR22-1 TB1-6						YES NO		12	
• 242	9		CR21-1 TB1-7						YES NO		12	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B A | SHEET 19 OF 27

WIRE LIST 1902397 B 19

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 243	35		CR1-A1 CR2-B1						YES YES			
• 244	35		CR2-B1 CR3-C1						YES YES			
• 245	35		CR3-C1 CR4-D1						YES YES			
• 246	35		CR4-D1 CR5-E1						YES YES			
• 247	35		CR5-E1 CR6-F1						YES YES			
• 248	35		CR6-F1 CR7-G1						YES YES			
• 249	35		CR7-G1 CR8-H1						YES YES			
• 250	35		CR8-H1 CR9-I1						YES YES			
• 251	35		CR9-I1 CR10-J1						YES YES			
• 252	35		CR10-J1 CR11-K1						YES YES			
• 253	35		CR11-K1 CR12-L1						YES YES			
• 254	35		CR12-L1 CR13-M1						YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B A | SHEET 20 OF 27

WIRE LIST 1902397 B 20

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 255	35		CR13-M1 CR14-N1						YES YES			
• 256	35		CR14-N1 CR15-O1						YES YES			
• 257			CR15-O1 CR16-R						YES YES			
• 261	28		DS4-B DS4-D						YES YES			
• 262	28		DS5-B DS5-D						YES YES			
• 263	28		DS6-B DS6-D						YES YES			
• 264	10		DS7-B S7SW2-C						YES YES			
• 265	28		DS7-B DS7-D						YES YES			
• 266	28		DS8-A DS8-B						YES YES			
• 267	28		DS8-B DS8-C						YES YES			
• 268	28		DS8-C DS8-D						YES YES			
• 269	9		DS8-G S8SW1-NO						YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR B A | SHEET 21 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 270	9		DS8-H S8SW2-NO						YES YES			
• 271	28		DS9-A DS9-B						YES YES			
• 272	28		DS9-B DS9-C						YES YES			
• 273	28		DS9-C DS9-D						YES YES			
• 274	9		DS9-G S9SW1-NO						YES YES			
• 275	9		DS9-H S9SW2-NO						YES YES			
• 276	28		DS10-A DS10-B						YES YES			
• 277	28		DS10-B DS10-C						YES YES			
• 278	28		DS10-C DS10-D						YES YES			
• 279	9		DS10-G S10SW1-NO						YES YES			
• 280	9		DS10-H S10SW2-NO						YES YES			
• 281	28		DS11-A DS11-B						YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR | SHEET 22 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 282	28		DS11-B DS11-C						YES YES			
• 283	28		DS11-C DS11-D						YES YES			
• 284	9		DS11-G S11SW1-NO						YES YES			
• 285	9		DS11-H S11SW2-NO						YES YES			
• 286	28		DS12-A DS12-B						YES YES			
• 287	28		DS12-B DS12-C						YES YES			
• 288	28		DS12-C DS12-D						YES YES			
• 289	9		DS12-G S12SW1-NO						YES YES			
• 290	9		DS12-H S12SW2-NO						YES YES			
• 291	28		DS13-A DS13-B						YES YES			
• 292	28		DS13-B DS13-C						YES YES			
• 293	28		DS13-C DS13-D						YES YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 294	9		DS13-G DS13SW1-NO						YES YES			
• 295	9		DS13-H S13SW2-NO						YES YES			
• 296	28		DS14-A DS14-B						YES YES			
• 297	28		DS14-B DS14-C						YES YES			
• 298	28		DS14-C DS14-D						YES YES			
• 299	9		DS14-G S14SW1-NO						YES YES			
• 300	9		DS14-H S14SW2-NO						YES YES			
• 301	28		DS15-A DS15-B						YES YES			
• 302	28		DS15-B DS15-C						YES YES			
• 303	28		DS15-C DS15-D						YES YES			
• 304	9		DS15-G S15SW1-NO						YES YES			
• 305	9		DS15-H S15SW2-NO						YES YES			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR | SHEET 24 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 306	6		S8SW1-C S8SW2-C						YES YES			
• 307	6		S9SW1-C S9SW2-C						YES YES			
• 308	6		S10SW1-C S10SW2-C						YES YES			
• 309	6		S11SW1-C S11SW2-C						YES YES			
• 310	6		S12SW1-C S12SW2-C						YES YES			
• 311	6		S13SW1-C S13SW2-C						YES YES			
• 312	6		S14SW1-C S14SW2-C						YES YES			
• 313	6		S15SW1-C S15SW2-C						YES YES			
• 314	26		TB1-1 TB1-2						NO NO			
• 315	26		TB8-6 TB8-7						NO NO			
• 316	26		TB4-4 TB4-5						NO NO			
• 317	26		TB1-5 TB1-6						NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1902397 | SCALE-NONE | REV LTR | SHEET 25 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 318	26		TB1-7					NO			
			TB1-8					NO			
• 319	26		TB1-9					NO			
			TB1-10					NO			
• 320	26		TB1-10					NO			
			TB1-11					NO			
• 321	26		TB3-1					NO			
			TB3-2					NO			
• 322	26		TB7-9								
			TB7-10								
• 323	26		TB3-4					NO			
			TB3-5					NO			
• 324	26		TB3-5					NO			
			TB3-6					YES			
• 325	26		TB8-4					YES			
			TB8-5					NO			
• 326	29		S5SW2-C					YES			
			DS5-B					YES			
• 327	10		DS4-B					YES			
			S4SW2-C					YES			
• 328	26		TB1-3					NO			
			TB1-4					NO			
• 329	10		S6SW2-C					YES			
			DS6-B					YES			

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
• 330	37		DS2-A				.25	YES		8	
			DS2-B				.25	YES		8	
• 331	37		DS2-C				.25	YES		8	
			DS2-D				.25	YES		8	
• 332	37		DS3-C				.25	YES		8	
			DS3-D				.25	YES		8	
• 333	37		DS3-A				.25	YES		8	
			DS3-B				.25	YES		8	
• 334	37		DS1-A				.25	YES		8	
			DS1-C					YES		8	
• 335	6		TB1-1				.20	NO		12	
			CR24-1				.25	YES		8	
• 336	6		TB1-3				.20	NO		12	
			CR23-1				.25	YES		8	

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SCALE - NONE	REV LTR B 4	SHEET 27 OF 27

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